



re::flex action

buddy



A.P. Valves



dive time



Welcome to the new A.P. Valves catalogue. Founded in 1969, the company has grown at a phenomenal rate from a small family business to our current position as UK market leaders and selling in over 50 countries - supplying sport and professional divers, military, search & rescue and coastguards worldwide.

This catalogue introduces the new BUDDY range of BCDs with reflex technology. The new range is our most advanced collection to date, building on the unique qualities that have always set us apart from the crowd and introducing a host of innovative new features and options - offering unrivalled levels of comfort, safety and performance.



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introducing the new BUDDY BCD range with

complete control

More and more of us every year venture out into the blue - and the green - in search of that unique experience that only diving can offer. For some, it is all about the challenge, the rush, the risk even - to push the limits. For others the adventure is more relaxed: the sheer magic of experiencing weightlessness, gliding down through clear blue water to explore wrecks and reefs, to peer at the strange and wonderful creatures that live there and maybe capture it all on camera.

Whatever our individual motivation to dive, the truth is, in the ocean we are entering a world we are fundamentally not designed for and so it is imperative to have equipment that is - dive kit we can depend on - absolutely. Here at A.P.Valves, from the boardroom to the shop floor, we have

with re::flex technology

commando



explorer



tekwing



2.2

A.P. Valves

been inspired by diving of all kinds for over 35 years and it is this direct involvement in the sport that has played a large part in compelling us to manufacture dive equipment of the highest build quality, that performs the essential tasks flawlessly and gives the diver complete control over the dive – in short, to make dive kit we are 100% happy to use as divers ourselves.

The new 2007 BUDDY range continues this tradition of excellence in function and reliability and adds to it the innovative new re::flex system delivering unrivalled levels of comfort, custom-fit and performance. Enjoy diving and dive safe.

action

re::flex

The new BUDDY BCD range incorporating re::flex technology raises the bar in terms of comfort, performance and quality in buoyancy control design. Take the time to understand the essential features that make BUDDY jackets unique among BCDs.

complete control

More than just a quality BCD - BUDDY jackets are Dive Safety Devices - packed with innovative ideas that give you complete control underwater and offer a variety of emergency breathing and buoyancy options - always within reach

choice of emergency breathing valves



The AP200 power inflator - the 'original' A.P. Valve - is also an emergency jacket-breathing valve.



The new balanced Auto Air automatically adjusts to the IP of whatever regulator it is fitted to. The Auto Air is a high performance (EN250) Octoinflator alternate air source.

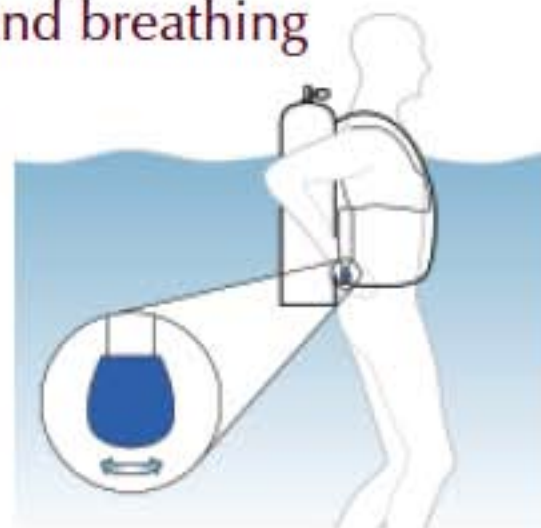
You have a choice of high performance emergency breathing valves which offer the best, most intuitive backup if any part of your breathing system fails. Simply place in your mouth and breath!

See p.14.1 'Reflex Action' for further details.

emergency buoyancy and breathing

All BUDDY BCDs have the option of an emergency air Mini Cylinder for either emergency buoyancy at the surface or for use with the unique BUDDY emergency jacket-breathing system in conjunction with either the Auto Air or the AP200.

The absence of emergency buoyancy is known to be a major factor in dive incident statistics. Having an independent buoyancy supply to hand is a time proven life-saver.



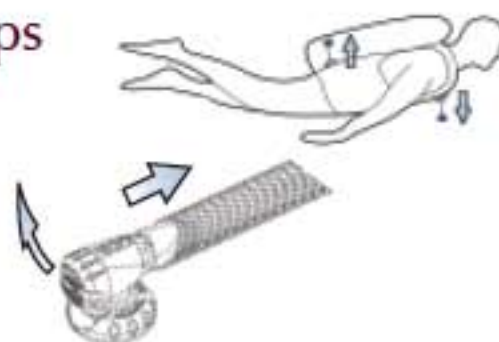
rapid release system (RRS) mechanical positive-lock security



Choice of **Cargo Clips** (standard) or **Integrated Weights** (optional)
Each weight pouch holds up to 5kg - hard or soft lead.

always-to-hand air dumps

Two rapid response air dump / over-pressure valves. The kidney grip floats for easy location when diving head down. A third hose dump (standard) integrated with the inflator assembly offers one-handed buoyancy control.



comfort and fit

All BUDDY jackets feature our unique **element::** adjustable backpack, harness and waistband system which is anatomically contoured, fully padded throughout and allows fine-tune fitting between the standard sizes, offering a BCD with a tailored, precise, comfort-fit to your unique body shape.

This involves a **One-Time Setup** of just 3 adjustments



adjustment

re::flex



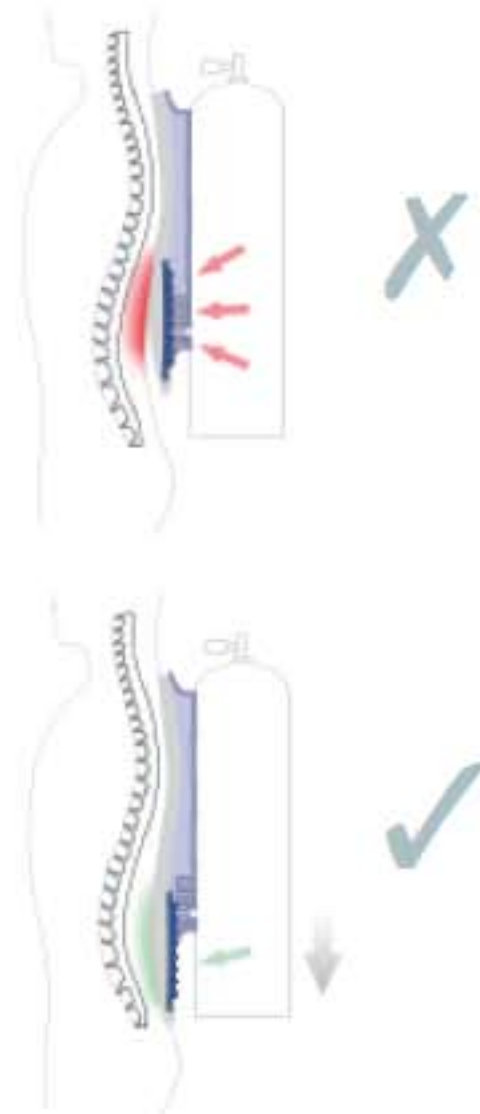
backpack adjustment

Fixed length backpacks make no allowance for the fact that people have different torso lengths and so for some the pressure of the cylinder is exerted either too low or too high on the back, directly onto the unprotected spine causing discomfort, back pain or even injury.

The most ergonomic position is achieved by ensuring that the base of the backplate sits comfortably into the lumbar region in the small of the back distributing the load across the pelvis.

The **element::** allows this by offering up to 100mm extendable length with 7 adjustment increments within that to achieve a precise and comfortable fit. Once your ideal backpack length is found it can be permanently set by means of a single bolt, tightened with a 5mm allen key.

The **element::** backpack has been developed using the latest detailed anthropometric research by the BSI. It is designed to offer a comfort-fit for the full range of male and female body shapes and sizes from the 5th to the 95th percentile.

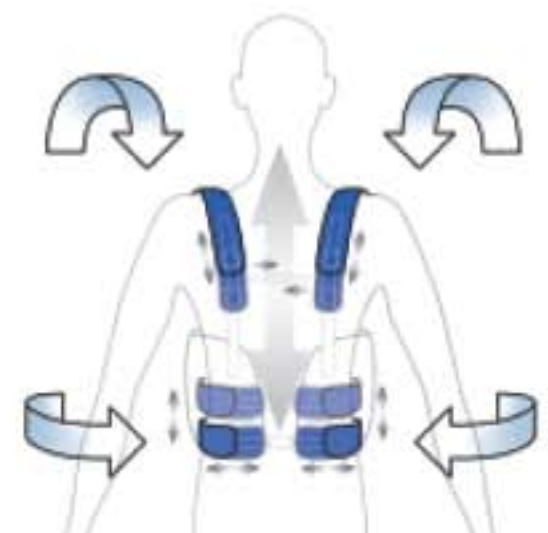


waistband adjustment

Again, conventional designs take no account of differing body lengths and the waistband may fit too high or low rather than the ideal position at the top of the hips. the **element::** harness waistband can be threaded in either a high or low position on the jacket cell to achieve the most ergonomic fit.

shoulder straps

The **element::** harness allows optimum positioning of the side-release shoulder buckles.



quality

re::flex

BUDDY BCDs are produced almost entirely in-house allowing us complete control over the whole manufacturing process; ensuring quality is maintained at every stage from the highest materials specification, to design, testing, refining and styling through to the assembly of the finished product.

When you buy a BUDDY you are buying a unique product - engineered and built by divers like yourselves. Here are some of the key features and qualities:

quality & performance

twin bag construction



TWIN BAG CONSTRUCTION

A.P. Valves are the only manufacturer to specify dual bag construction as an essential feature across our entire range. Dual bag construction is safer, more hard-wearing and can be inexpensively repaired and serviced, unlike rival single bag designs which need replacing entirely once their air tightness is destroyed by wear or puncture. The airtight PU inner bladder is impregnated with an anti-bacterial agent and its HF welded seams are so durable they come with a **Lifetime Warranty**.

endura fx100

Endura FX100 is a unique new material commissioned by us, and produced by a specialist materials manufacturer specifically for the diving environment. It has been scientifically tested to withstand extreme conditions and maximise puncture and abrasion resistance. Endura FX100 is coated both sides to prevent fraying, hold colour and protects against chemical and UV attack. This specialist material is only found on BUDDY BCDs.



FALSE RESISTANT

patented stud system construction

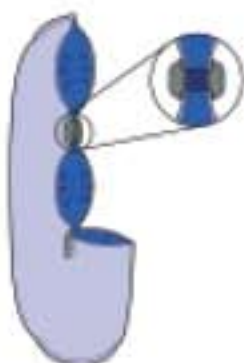
Our unique patented Stud System protects the buoyancy bladder by transferring the main stresses to the tough outer shell. The system also allows rapid flow of air around the jacket allowing the diver to move freely underwater unhindered by trapped air pockets.

unique element:: harness

The new element:: harness not only offers a superb comfort-fit, it also prevents body squeeze on inflation. The buoyancy cells sit on the outside of the harness and inflate away from the body without impacting on the tightness of the straps at waist or shoulders. The upper chest strap is elasticated to allow for expansion.

The element:: also greatly enhances product life as the load of the cylinder is transferred to the much stronger harness webbing reducing wear on the jacket and buoyancy cell.

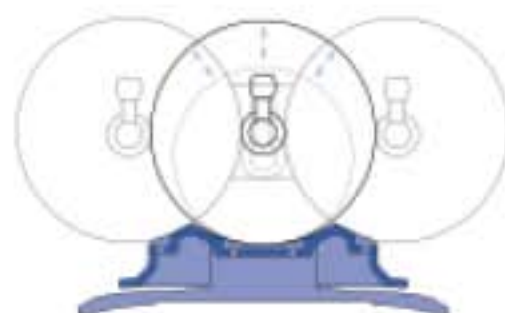
By distributing the load through the shoulders and hips the element:: harness offers a vast improvement in diver comfort both in-water and out.



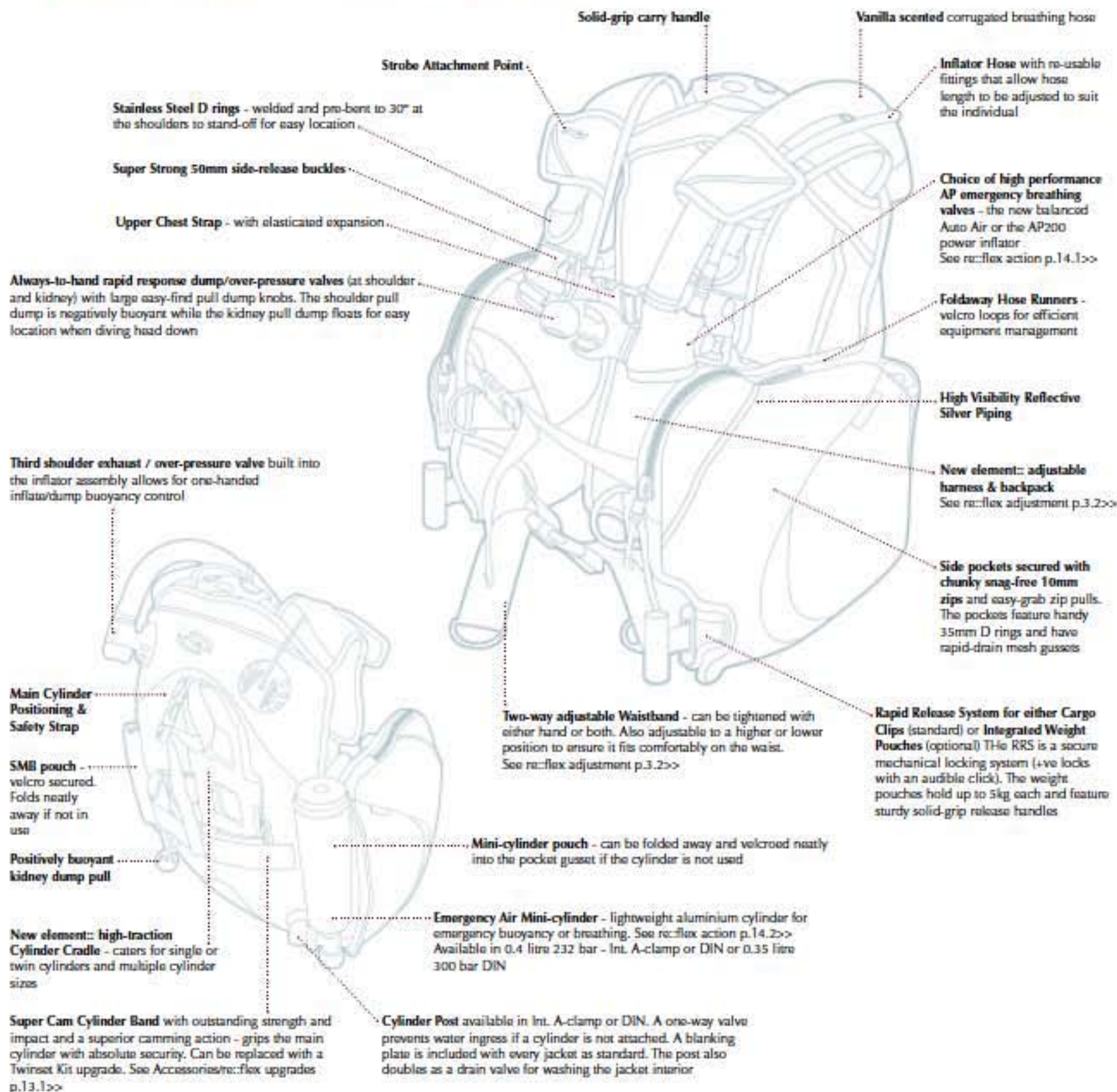
AWAY FROM THE BODY INFLATION

choice

re::flex



attention to detail



modular path :: sport to technical

The new reflex range is a complete and advanced modular system offering superb flexibility to upgrade - taking you from a quality sport BCD through to a full technical configuration - ideal for the type of diving you do now and may do in the future as your skills and needs change. It is all about you - the diver - and giving you the choice to get what you want from a jacket. Upgrades available include:

:: Upgrade to Twinset

:: Buoyancy Upgrades

:: Pony Cylinder Upgrades

:: Further Upgrades - extra D rings, emergency air horn, SMBs, signal buoys, lift bags, BUDDY line

See Accessories/reflex upgrades for details >>



the mo

the new buddy commando

The BUDDY Commando is probably the most famous BCD ever built.

It was originally developed to meet the punishing demands of Navy SAR divers - and is still in service today. It subsequently took the sport and technical diving market by storm, outselling its rivals for over 20 years.

st famous BCD ever built



The new Commando retains the essential qualities and features on which this success is based – such as superior build, lift and surface support characteristics – and adds the new advantages offered by reflex technology.

BUDDY Commando - The choice of experience

commando



commando

buddy



specification

- New element :: comfort-fit system – anatomically contoured, fully padded and adjustable to the finest degree at shoulders, waist and back plate
- Optional Rapid Release System for either integrated weights or cargo clips
- 3 easy-grip rapid response air dump/over-pressure valves
- Encapsulated reflective piping for enhanced diver visibility
- New and unique stabilising cradle backpack eliminates tank roll
- Super Cam cylinder band grips the main cylinder with absolute security
- Chunky-zip side pockets
- Foldaway SMB pouch at rear
- Foldaway hose runners
- Expandable gusset structure ensures the buoyancy cell inflates away from the body minimising squeeze
- Choice of emergency breathing valves and optional mini-cylinder



Standard extra features on the Commando:

- Additional velcro-sealed side pocket
- 8 welded stainless D rings with the 2 at the shoulders pre-bent to 30° to stand off the jacket for easy location and attachment

Available in Small, Medium, Large, XLarge, XXLarge
Lift Capacity: 13.87kg, 20kg, 21.02kg, 25kg, 32.95kg

Dry Weight: 4.6kg, 4.8kg, 5.1kg, 5.3kg, 5.6kg

upgrade options

Upgrade to Auto Air - high performance alternate air source Octo-inflator (EN250 rated)

Upgrade to Integrated Weight System - weight pouches hold up to 5kg each - hard or soft load - and utilise the same positive-lock mechanical Rapid Release System as the Cargo Clips

Upgrade to Twinset Camband Kit / Pony Cylinder Kits / additional buoyancy / extra D rings / BUDDY Blast / SMBs

See Accessories/re::flex upgrades for details >>



no ordinary jacket

The new BUDDY Explorer is a high spec sport jacket built to exactly the same rigorous standards in quality, performance and comfort expected of all BUDDY BCDs.

In developing this BCD we have made absolutely no compromise in the essentials and then added value aesthetically and ergonomically to create one of our finest jackets

what will you discover?

explorer



ever. The new Explorer is packed with features designed to make your diving as comfortable and responsive as possible.

Step outside your comfort zone - in complete comfort

8.1

A.P. Valves



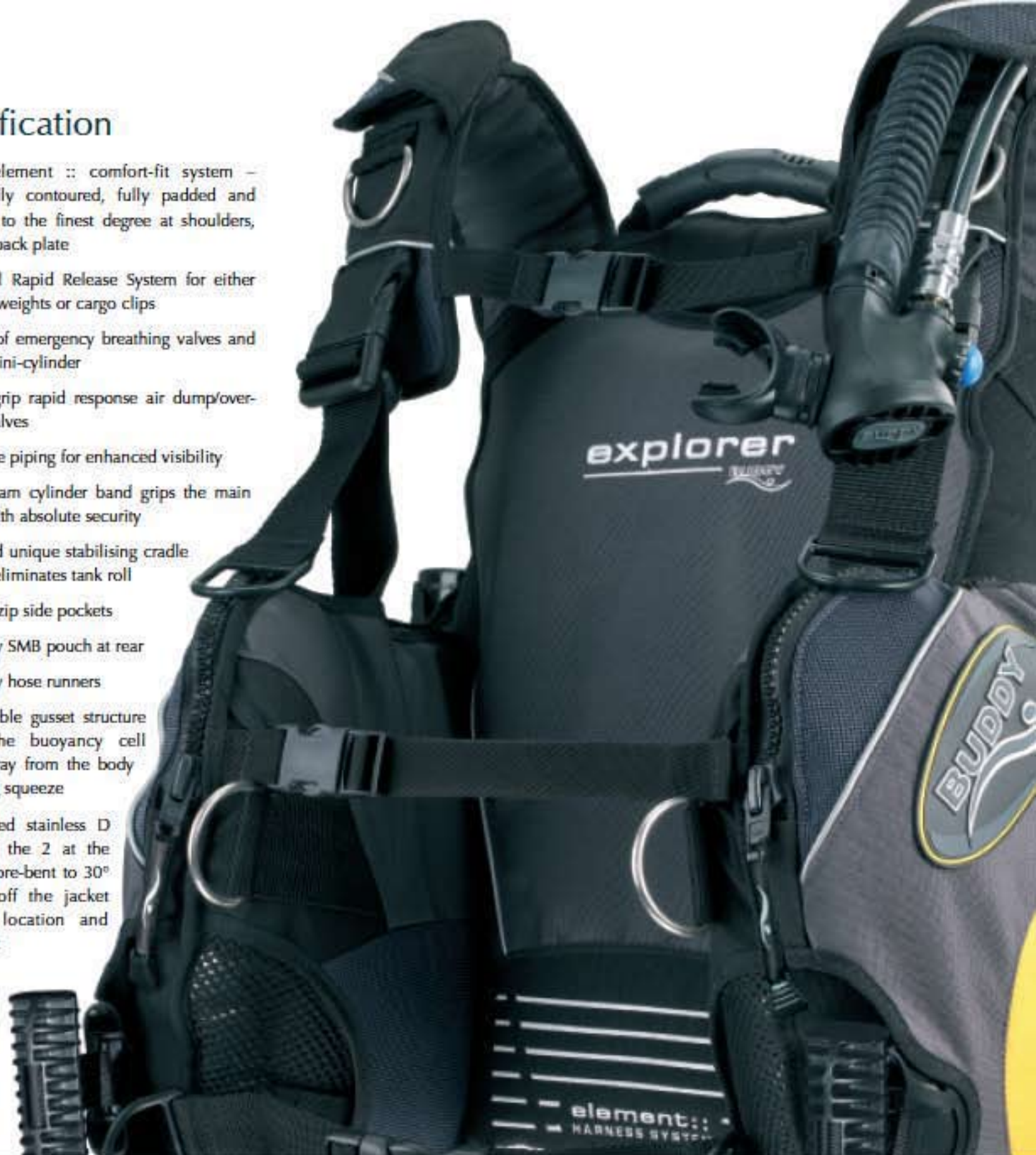
explorer

buddy



specification

- New element :: comfort-fit system – anatomically contoured, fully padded and adjustable to the finest degree at shoulders, waist and back plate
- Optional Rapid Release System for either integrated weights or cargo clips
- Choice of emergency breathing valves and optional mini-cylinder
- 3 easy-grip rapid response air dump/over-pressure valves
- Reflective piping for enhanced visibility
- Super Cam cylinder band grips the main cylinder with absolute security
- New and unique stabilising cradle backpack eliminates tank roll
- Chunky-zip side pockets
- Foldaway SMB pouch at rear
- Foldaway hose runners
- Expandable gusset structure ensures the buoyancy cell inflates away from the body minimising squeeze
- 4 welded stainless D rings with the 2 at the shoulders pre-bent to 30° to stand off the jacket for easy location and attachment



The new Explorer features the toughest twin bag construction ever made with a new and unique 1000 denier Endura FX100 outer shell material and high frequency welded PU airtight inner bladder.

Available in Small, Medium, Large, XLarge

Lift Capacity: 11.73kg, 16.02kg, 17.55kg, 19.88kg

Dry Weight: 4.3kg, 4.5kg, 4.8kg, 5kg

upgrade options

Upgrade to Auto Air - high performance alternate air source Octo-inflator (EN250 rated)

Upgrade to Integrated Weight System - weight pouches hold up to 5kg each - hard or soft load - and utilise the same positive-lock mechanical Rapid Release System as the Cargo Clips

Upgrade to Twinset Camband Kit / Pony Cylinder Kits / additional buoyancy / extra D rings / BUDDY Blast / SMBs

See Accessories/reflectix upgrades for details >>



sub three kg

Introducing

The new travel jacket from A.P.Valves -
the Commando Escape Sub Three Zero.

The Escape is a light-weight BCD that utilises bespoke
new materials to deliver heavy-duty quality, comfort

9.2

A.P.Valves

escape



and performance
- and weighing-in
at under 3kg in sizes
small to XL (XXL - 3-35kg)

commando
escape
sub three zero



commando
escape
buddy



specification

- New APV300 low profile power inflator
- 4 x huge side pockets with heavy-duty zips
- Easy-to-locate buoyant kidney dump & sinking shoulder dump
- Slower dumping 3rd dump valve integrated with the inflator-hose offers one-handed - fine-tuning - buoyancy control
- Hi-viz styling with reflective silver piping
- Hose routing clips
- Bags of lift (see below)
- Light-weight anodised aluminium D rings
- Super-grip webbing camband (single or twins)
- 2-way adjustable waistband
- Rigid backplate with carry handle
- Elasticated cummerbund auto-adjusts for suit squeeze

Max Lift Capacity: 11.2kg (S), 17.3kg (M),
19.3kg (L), 21.4kg (XL), 27.5kg (XXL)

Dry Weight: 2.63kg (S), 2.78kg (M), 2.87kg (L), 2.99kg (XL), 3.26kg (XXL)



Built in response to customer demand for a high quality travel jacket, the Escape is a single bladder construction made with a unique material specially commissioned by us to provide the best possible balance between quality and weight. The result - OceanSeal 800 - is a tough and unique 800 denier material, high-frequency welded and double-stitched at the seams which offers an extremely rugged yet light-in-weight BCD guaranteed to beat the baggage-fee-blues but still offer the high performance expected of a BUDDY jacket

upgrade options

Upgrade to Auto Air - high performance alternate air source Octo-inflator (EN250 rated)

Upgrade to Twinset Camband / Pony Cylinder kit additional buoyancy / extra D rings / SMBs

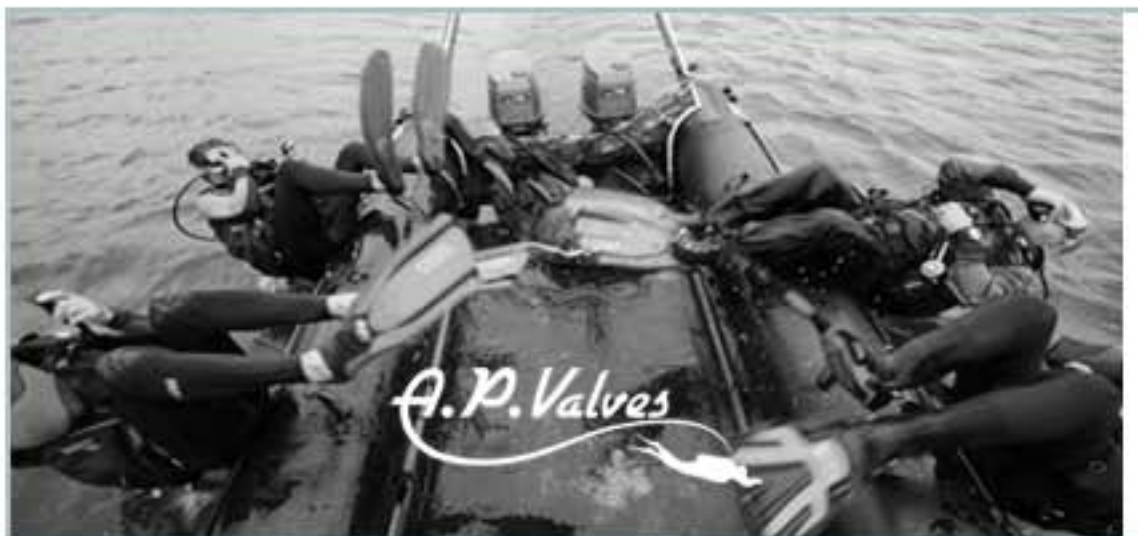
commando
escape
sub three zero

See Accessories/reflex upgrades for details >>



commando
TD40

the special
edition
TD40



specification

- Unique adjustable reflex lower backplate directs the weight of the cylinder(s) onto the lumbar region of the back
- Choice of emergency breathing valves and optional mini-cylinder
- Unique reflex high traction stabilising cradle on the backplate, eliminates tank roll and caters for the 2 common single cylinder diameters or twin cylinders
- Slower dumping 3rd dump valve integrated with the inflator-hose offers one-handed - fine-tuning - buoyancy control
- Large rapid-drain chunky-zipped pockets with handy internal D rings
- Foldaway SMB/SMBCi pouch at rear
- Famous twin-bag construction build-quality
- 8 welded stainless steel D rings
- Hi-viz reflective silver piping
- Backpack comfort pad
- 2-way adjustable waistband
- Super-grip webbing camband (single or twinset)
- Easy-to-locate: buoyant kidney dump & sinking shoulder dump

Max Lift Capacity:

16.03kg (S), 21.2kg (M),
24.4kg (L), 25.3kg (XL),
32kg (XXL)

Dry Weight:

3.96kg (S), 4.12kg (M), 4.33kg (L),
4.49kg (XL), 4.79kg (XXL)

Available in yellow/black or all-black

To celebrate 40 years manufacturing quality dive kit, A.P.Valves introduce the new special edition BUDDY Commando TD40

Developed to meet the punishing demands of Navy SAR divers in the mid 1980s the original BUDDY Commando subsequently took the UK and northern European sport, technical and commercial diving market by storm, out-selling its rivals for over 20 years and still going strong.

The special edition TD40 is based on the original Commando blueprint. The new TD40 combines the best of old and new with classic Commando TD looks, lift and build-quality together with the innovative comfort, custom-fit and precision buoyancy control features of the contemporary BUDDY reflex range.



upgrade options

Upgrade to Auto Air - high performance alternate air source Octo-inflator (EN250 rated)

Upgrade to Twinset Camband / Pony Cylinder kit additional buoyancy / extra D rings / SMBs / BUDDY Blast

See Accessories/reflex upgrades for details >>



new tekwing

The new BUDDY Tekwing (27.44kg) is a fully customisable technical buoyancy control package with a wide range of optional features allowing you to configure the kit precisely to your needs.

Options include adding redundant buoyancy, integrated weights, cargo pockets, emergency breathing and buoyancy systems and multiple cylinder camming and side-mounting solutions.

The integrated weight option (below left) utilises the new positive-lock, mechanical Rapid Release System with weight pouches that can hold up to 5kg each. These thread on to the waistband and can be secured in whatever position - front or back - as required. A further 6kg of lead can be held in the two trim weight pockets (left) hidden within the seam and secured with slabs of velcro at the rear top of both the Tekwing and the Tekwing Lite.

The Tekwing includes the new element:: backpack with all its advantages of comfort and customisable size adjustment. The new high-traction cylinder cradle also features double camband slots allowing you the option of threading the second camband in the twinset kit - which consists of two cambands with cylinder spacing blocks - directly on to the backpack. This twin camband setup will retain a twinset consisting of two independent cylinders (that is, with separate first stages rather than a manifold and boot) as securely and rigidly as steel bands. BUDDY webbing cambands also have several advantages over steel bands in that they are easier to pack for travel, require no tools to fit and are easily adjustable to suit other diameter cylinders.



An Integrated Weight System Upgrade - is available for both wings. The weight pouches are secured using the BUDDY positive-lock mechanical Rapid Release System (RRS) and will hold up to 5kg each - hard or soft lead.

The Tekwing provides 27.44kg of buoyancy with the option of adding a further 22.5kg BUDDY Redwing to the configuration to make a redundant buoyancy system.

The harness features 2 welded stainless steel D-rings (more may be added) which can be moved to the ideal position and 2 further D-rings on the wings for easy attachment of side-mounted stage cylinders.

Optional BUDDY BK31 Vert-Clips can be fitted to the 2 side-mount D rings to hold them rigid at a right-angle to the wing for easy one-handed attachment or release of trigger-clips.

Waist-band slots are fitted either side to prevent 'tank-wrap' if the wings are dived with a single cylinder.

Two-band crotch straps are fitted to eliminate ride-up on inflation of the wing.

Both the Tekwing and Tekwing Lite features an over-pressure valve and two dump-valves - one at the kidney and the new dumping elbow at the shoulder which is integral to the corrugated hose/inflator assembly.

The AP200 power inflator has the same hose connection as the AP400 drysuit inflator and the Inspiration CCR diluent inflator.

Both wings are one size fits all



Both wings feature integral velcro sealed trim weight pouches which hold up to 3kg each

new tekwing lite



Additional D rings may be added either by threading a BK30 D ring + webbing loop onto the waistband or to any area of 50mm webbing with a BK31 Verti-clip.

The new Tekwing Lite is a compact and lighter version of the Tekwing offering 18.26kg of buoyancy.

Apart from the size and lift difference the Tekwing Lite offers identical quality, specification and choice of optional upgrades.





tekwing/lite

buddy

further options

Optional emergency mini-cylinder (DIN or Int A-clamp 232 bar 0.4 litre or 300 bar DIN). A blanking plate is included if used without mini-cylinder.

AP200 power inflator or Auto Air (power inflator / emergency jacket breathing / EN250 rated alternate air source)

Cylinder Cam Band Options:

Twinset BK15 (5.5" diam. cylinder bands)

Twinset BK16 (7" diam. for 10 or 12 ltr cylinders)

Twinset BK17 (8" diam. for 15 ltr cylinders)

Single cylinder cam band fits all up to 15 litre (8" diam.) cylinders.

Longer twinset or single bands are available to order



buddy accessories

modular

A.P.Valves has a proud record of making dive accessories - from the original emergency breathing valve back in 1969 through to the world's first self-sealing Surface Marker Buoy - innovative design originals that subsequently became ubiquitous and standard issue kit, often copied but never bettered.

Today we offer a full range of quality accessories, spares and product upgrades to complement the new BUDDY reflex range.



We make 3 types of SMB

SMBO - Open ended

SMBC - the original self-sealing surface marker buoy with AP5 dump/over-pressure valve

SMBCi - self-sealing SMB with 0.1 or 0.2 litre mini-cylinder

All 3 can be easily filled from your second stage or spare air system.

All buoys roll up neatly for pocket storage, external attachment or stowage in the custom SMB pouch on the new Commando and Explorer BCDs.



HiViz SMBs

All 3 BUDDY SMB models - SMBO, SMBC and SMBCi - are also offered in contrasting Red & Yellow panels for maximum visibility.

Signal Buoys

All 3 models are also available in all-Yellow. These are ideal Signal Buoys - for example to warn the surface of an impending out-of-gas situation or any other pre-arranged communication. A message slate or ID marker can also be attached to the top eyelet.

surface marker buoys

the BUDDY SMBC

The original orange-sausage self-sealing Surface Marker Buoy - much copied but never bettered.

The SMBC is inflated by simply purging a regulator in the open end. The really clever bit is in the mouth where a unique self-sealing baffle - or duck-bill valve - is forced shut forming an airtight seal on inflation.

The SMBC also features a stream-lining flap which closes over the mouth when used in a current to prevent any sea-anchor effect.

It can be used as a delayed action SMB or alternatively it can be inflated at the start of a dive and towed as a standard surface marker. The SMBC is pulled upright by tension on the line and clearly marks the diver's position.

The SMBC stays inflated at the surface making it easy for the surface crew to track the diver or for the diver to hold aloft and wave if separated from the boat.

A message slate or reflector can be tied to the top eyelet.

Dimensions: 1.4m x 20cm wide

the BUDDY SMBCi

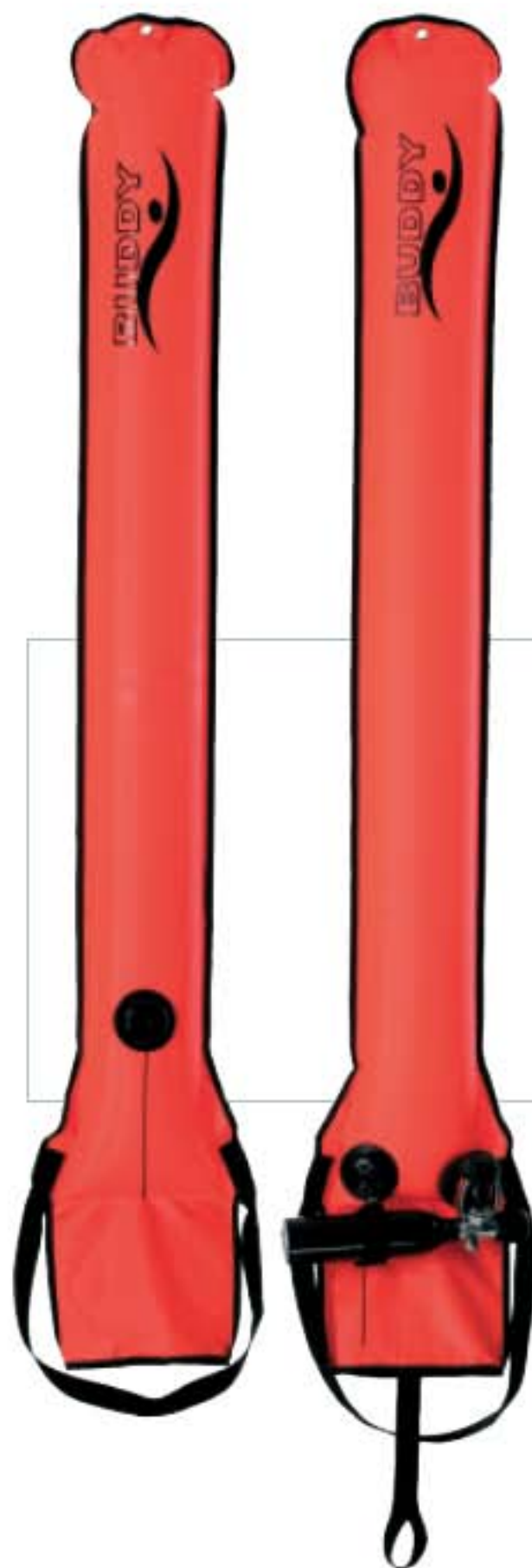
The superb BUDDY Self-sealing SMB with dedicated mini-cylinder inflation.

A real gem of a product, the BUDDY SMBCi has all the features and advantages listed above together with an independent inflation supply.

Choice of 0.1litre (115mm long) 232 bar, International A-clamp or DIN.

The mini-cylinder is easily replenished by decanting from your main cylinder. It folds neatly and unobtrusively inside the SMB to be stowed in pouch or pocket.

One key advantage over similar systems is that it can still be inflated via the baffle with a regulator in the event that you have forgotten to fill the mini-cylinder.



be seen

buddy pocket reel

Only 7.5cm in diameter by 5cm deep - the BUDDY Pocket Reel is the perfect solution to the problem of bulky and cumbersome SMB/Navigation reels.

Weighing only 205g the Pocket Reel can be easily stowed in your BCD pocket or clipped unobtrusively to a D Ring.

The dome-sided design sits comfortably in the palm of the hand and a simple press-release /auto-lock spring mechanism is ideally placed for thumb operation. Alternatively, the spring can be removed so that the thumb catch has a lock-on/click-off release action, if preferred.

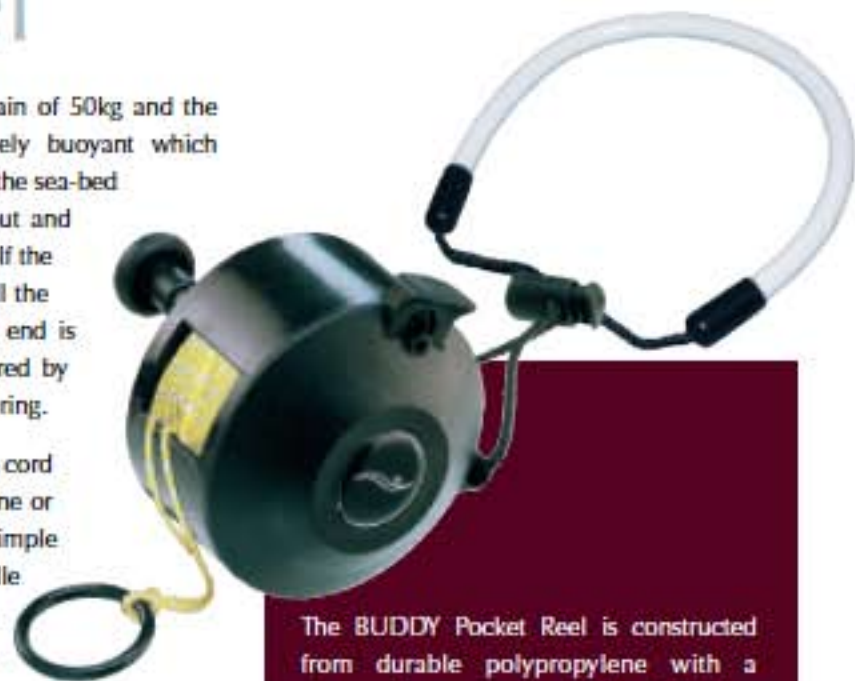
The Pocket Reel features a comfort-padded strap with toggle adjustment for tightening onto the wrist when used as a navigation reel.

The reel is wound with 40m of floating line - manufactured to our own specifications for the optimum combination of strength and flotation.

The cord has a breaking strain of 50kg and the advantage of being positively buoyant which means that it will rise above the sea-bed or wreckage when played out and so help avoid entanglement. If the line is accidentally wound all the way into the reel body, the end is easily identified and recovered by means of a large attached O ring.

A large loop in the end of the cord makes tying off at the shot-line or connection to an SMB a simple operation. The winding handle also features a groove which is useful for temporary lock-off of the line.

WARNING! As instructed, you **SHOULD NOT** have a reel attached to any part of your kit or use the wrist-strap when sending an SMB to the surface.



The BUDDY Pocket Reel is constructed from durable polypropylene with a chromed brass centre spindle which has the double function of providing structural strength and ultra-smooth reel operation.

reel



lift bags

Lift Bags - 25kg and 65kg

Manufactured from heavy-duty polyurethane coated nylon with extremely durable high-frequency welded seams.

Both 25kg and 65kg life bags are available in 3 versions:

LB25 & LB65 - open-ended models. The tapered shape prevents air spillage.

LB25DV & LB65DV - open-ended with an AP5 over-pressure/dump valve.

LB25C & LB65C - with our unique internal baffle duck-bill valve, that seals on inflation preventing accidental loss of buoyancy during lift or at the surface. The self-sealing models have an AP5 over-pressure/dump valve to prevent bursting on ascent and allow deflation after use.



LB25Ci - 25kg Self-sealing Lift Bag with inflation

The 25kg self-sealing bag is also offered with a 0.4 litre 232 bar mini-cylinder (DIN or A clamp). This can either be used conventionally as a lift bag or as a heavy-duty Surface Marker Buoy.



the buddy blast

The BUDDY BLAST surface emergency air-horn is compact, easy to use and packs an almighty punch with a huge 136dB blast of attention-grabbing noise.

Use with appropriate care about where you are pointing it but the reality is you need never worry again about going unnoticed in a separated-from-the-boat situation.

The Blast is designed so that divers can operate it easily with cold hands or gloves in an emergency. There are no tiny buttons to locate – you just grip

the body of the unit and squeeze the spring-loaded halves together to activate.

The BLAST operates from a medium pressure hose and is designed to sit in-line between the hose and either of the two A.P.Valves – the AP200 inflator or the Auto Air octoinflator.

It has been designed specifically to work in conjunction with these valves and is the only air-horn on the market that can be used with the Auto Air without impeding its normal breathing operation.

The BLAST comes in three versions (as shown):

- with Auto Air fitting
- with AP200 fitting
- as a stand-alone unit

All three versions come with a 61 cm (24") medium pressure hose with a swivel connection so that the unit can be rotated to the ideal position.

The BLAST is also useful as an air-gun for filling SMBs or liftbags underwater.

WARNING! Hold away from ears during operation at the surface.



The BUDDY LINE

Stay in touch with your buddy

The BUDDY LINE offers the best way of keeping contact with your dive partner when you need to.

It is the ideal tool in certain conditions – for example in poor visibility, in a rip current, when drift diving or any training situation where the instructor wants to ensure contact with the student.

The BUDDY LINE can be used as a Jon-line for 'hands-free' attachment at the deco-stop.



The 1.25m line is made from the toughest 25mm bright yellow webbing and features a loop at one end for hand or D ring attachment and a brass spring clip at the other to link to your buddy – or the shot line. It can also be clipped to a second BUDDY LINE to double the distance between divers if preferred.

The webbing line stows neatly into a small neoprene pouch (8cm long) secured with a spring-toggle – from which it is instantly deployable.



in touch

AP8L - Scuba to Scuba



AP8K - Industrial Connector



accessory



AP8M

Oxygen Decanting Hoses

The AP8K industrial connection hose (above) can be easily converted to a Scuba to Scuba hose by unscrewing the bullnose end and replacing it with a DIN fitting (either 232 or 300 Bar) - which is available separately - AP56D200 or AP56D300.

Compressor Adaptor

DIN to A-clamp compressor adaptor - essential when travelling



0-350 Bar Miniature Pressure Gauge – AP508A

Designed for divers using off-board gas cylinders this superb mini-gauge eliminates the clutter of conventional hoses and gauges. The AP508A screws directly into the regulator's 1st stage HP port (7/16" UNF thread). 0-350 Bar markings are black against a white face for optimum clarity. Available oxygen clean.

pressure

A.P. Cylinder Valves

Exclusive to A.P.Valves, our high spec cylinder valves have the smoothest on/off operation so far possible in such a valve. This is achieved by a combination of the highest quality production accuracy and design features, such as the extra seal on the main spindle. The operating knob is directionally ridged to give superb grip when opening but a deliberately less effective grip on closing. This reduces over-tightening and therefore excessive wear of the valve seat - the bugbear of many other valve systems.

X-Flow Cylinder Valves Available in two M25 x 2 (cylinder thread) versions:

AP92 - International A-clamp

AP93 - DIN (5/8" BSP female) convertible from International A-clamp

The AP93 DIN/A-clamp is also available with the following cylinder threads:

AP93BSP - with 3/4" BSP cylinder thread and

AP93M18 - with M18 x 1.5 cylinder thread

All valves are available oxygen-clean.



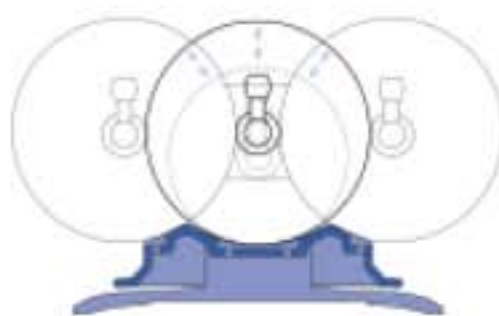
upgrade path

re::flex

modular system ::

The new re::flex range is a complete and advanced modular system offering superb flexibility to upgrade - taking you from a quality sport BCD through to a full technical configuration - ideal for the type of diving you do now and may do in the future as your skills and needs change.

sport to technical



Anti-slip Cylinder Cradle
Single or Twins and Multiple Cylinder Sizes

Twin Cylinders Upgrade

The new element:: backplate is not only designed to cater for different sizes of single cylinder but also allows for mounting twin cylinders on the outer curves of the high traction anti-slip cradle in conjunction with one of our Twinset camband kits.



Twinset Kits

Superb, non-slip, twinset cambands hold cylinders with absolute security.

Upgrade any of the new BUDDY BCDs from single cylinder to twins. Simply thread the twin cambands onto the new element:: backpack which is common to all new BUDDY waistcoat jackets and wings. The element:: has a spare set of slots above the single camband position (shown above left) to allow for a twinset kit. No tools required.

Available in 3 sizes to fit all standard cylinders:

BK15 - 5.5" / 140mm diam. cylinders

BK16 - 7" / 178mm diam. cylinders

BK17 - 8" / 203mm diam. cylinders

There is leeway in the webbing band length to cater for unusual cylinder sizes. Quick and easy to use with superior camming action and cylinder grip.

When fitted correctly with the separation blocks it is the diver's choice to use either a manifold or two regulators. In either case the cylinders will be held as rigidly as metal cam band systems but with the advantage that they are easier to fit and fold flat in the suitcase when travelling. It is simple to convert back to a single cylinder camband when required.

Pony Cylinder Upgrade

Another upgrade option with any BUDDY BCD - the Pony Cylinder Kits are an extremely neat and secure method of mounting 2 or 3 litre pony cylinders alongside your main cylinder. The Pony Band kit can either be threaded into the new element:: backpack or used directly on a single cylinder or twinset allowing for a wide variety of configuration possibilities from single with pony (as shown) up to Quads - 4 cylinders on your back.

Available in 4 sizes:

BK18 - 4" / 102mm diam. Pony Cylinder to a 7" / 178mm diam. main cylinder

BK19 - 4" / 102mm diam. Pony Cylinder to a 8" / 203mm diam. main cylinder

BK20 - 4.5" / 114mm diam. Pony Cylinder to a 7" / 178mm diam. main cylinder

BK21 - 4.5" / 114mm diam. Pony Cylinder to a 8" / 203mm diam. main cylinder



Buoyancy Upgrade - The Buddy Redwing



The BUDDY Redwing is an exceptional method of upgrading your configuration providing 22.5kg of redundant buoyancy in one self-contained unit.

No tools required - the Redwing is easy to fit. Simply re-thread the cambands to locate the Redwing between your existing BCD and cylinders.

Fully compatible with all new jackets and wings, the Redwing gives extra trimming possibilities to achieve a relaxed head-up surface support position regardless of cylinder configuration. The Redwing is manufactured to the same famous twin-bag quality as the jackets and includes the AP200 power inflator and AP31 hose exhaust as standard. It features two 50mm stainless D rings as secure anchor points for side-mount cylinders.

Designed to be used by a wet suited technical diver or for dry suited cold water dives deeper than 70m.



D ring Upgrade

Additional D rings may be added to the Commando, the Explorer or the Tekwing either by threading a BK30 D ring + webbing loop onto the waistband or to any area of 50mm webbing with a BK31 Verti-clip. The Verti-clip can also be fitted to the D rings at the bottom of all BUDDY wings to hold them rigid at right angles to allow one-handed attachment and release of trigger clips.

upgrade

Stage Cylinder Upgrade

Stage Cylinder Harness

Ideal for side-mounting cylinders. Includes harness and two AP85A brass trigger hooks

Available in 3 sizes to fit:

AP73/4/4.5 - 4" to 4.5" (102mm to 114mm) diam. cylinders

AP73/5.5 - 5.5" (140mm) diam. cylinders

AP73/7 - 7" (178mm) diam. cylinders

2 or 3 litre Steel Cylinders

We offer a range of cylinders and valves.
(See previous page for valve options)

AP6H - 3 litre Steel. WP232 bar, M25x2

AP6M - 2 litre Steel. WP232 bar, M25x2

All cylinders are also available oxygen-clean and with oxygen labels.



re::flex

action



the AP200

Developed from the original A.P. Valve the new, ergonomically restyled AP200 is a combined power inflator and emergency jacket breathing valve.

The concept of breathing from your BCD in an emergency has proved so simple and reliable it has withstood the test of time and is an option offered today with both the AP200 and the new Auto Air.

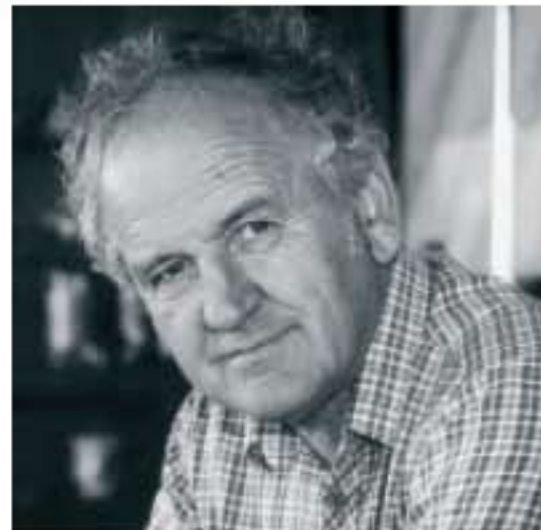
The inventor of the original valve, David Parker, outlines the simple, life-saving procedure he first developed back in 1969.

"Throughout the dive you will always have a potential air supply inside your jacket. If your regulator fails or you are out-of-air, the jacket-breathing facility of the AP200 or Auto Air will give you another bail-out option by allowing you access to this spare air."

"Simply insert the mouthpiece in place of your failed reg and breathe! There will always be a few breaths available and this initial ability to breathe is key to preventing panic in those first few seconds. Air inside the bladder is easily replenished with a short on/off operation of the mini-cylinder. With practice this bail-out procedure will become routine and you can dive with the confidence that you have the ability to breathe - always within reach - giving you time to reach your buddy, or, if necessary, to jacket-breathe all the way to the surface. As you ascend, the air in your jacket will expand and so you will have to replenish less often."

"At the surface, the AP200 (or Auto Air) can also be used to orally inflate your jacket."

David Parker (BSAC Instructor No. 177)



the new balanced Auto Air

Originally developed in 1972 by David Parker, the Auto Air was years ahead of its time preceding all of the current crop of Octo- inflators. It combines in one compact unit, the AP jacket-breathing facility, a direct feed power inflator and an alternate air source Octopus bailout - offering EN250 (regulator) standard breathing performance.

The new Auto Air has been restyled and improved. It is now a balanced valve which means it requires no set up or adjustment. It will automatically adjust to the interstage pressure of whatever first stage it is fitted to.

In an emergency, the Auto Air is simplicity itself - just put it in your mouth and breathe! Unlike other makes, you do not have to press any buttons. It will draw air from wherever it can, either from your main cylinder if there is gas remaining (octopus mode) or from the bladder of the bcd itself (jacket-breathing mode). In the latter mode the procedure is exactly the same as for the AP200 outlined above.

In Octopus mode the Auto Air is a high performance bailout regulator with the advantage that it sits in your chest, always within reach when you need it in an emergency.





Always within reach

Mini Cylinder

All BUDDY BCDs have the option of an emergency air Mini Cylinder.

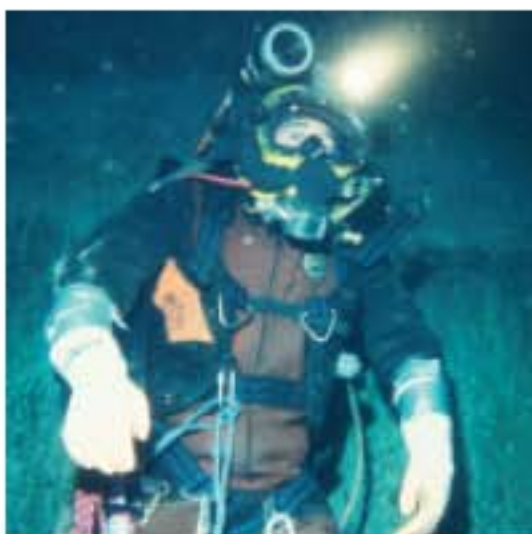
The emergency air mini-cylinder is a proven life-saver offering either vital emergency buoyancy at the surface or emergency breathing in conjunction with either the Auto Air or the AP200 - the unique BUDDY emergency jacket-breathing system outlined left.

The absence of emergency buoyancy is known to be a major factor in dive incident statistics. Spare air systems such as a pony and octopus may provide emergency breathing but do not offer emergency buoyancy on reaching the surface. Having an independent buoyancy supply to hand in a high-stress, post-bailout situation in which the diver is likely to be suffering fatigue and struggling to stay afloat is a simple, common sense, life-saving option.



dive industry
search & rescue
military

commercial



Dive Industry suppliers since 1969

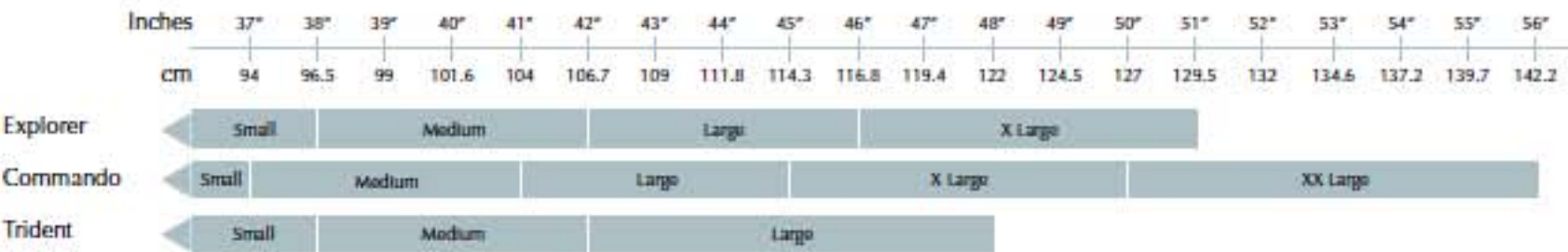


BUDDY BCDs and AP emergency breathing valves now sell in over 50 countries - supplying professional divers in the commercial diving sector, search and rescue and the military

BUDDY jackets have been standard issue in many armed forces for decades and there are currently 6 types of BUDDY BCD in service in NATO forces

Size Guide & Specification

Chest Sizes



	NEW Explorer	NEW Commando	NEW Tekwing	NEW Tekwing Lite
Sizes	S, M, L, XL	S, M, L, XL, XXL	One Size	One Size
Maximum Buoyancy	11.73, 16.02, 17.55, 19.89kg	13.87, 20, 21.02, 25, 32.95kg	27.44kg	18.26kg
Element Harness System	■	■	■	■
AP200 Power Inflator	■	■	■	■
Auto Air	●	●	●	●
RRS - Cargo Clips	■	■	-	-
RRS - Integrated Weight Pouches	●	●	●	●
AP5 Pressure Relief/Exhaust	2	2	2	2
Hose Exhaust	■	■	■	■
Emergency Air Cylinder	■	■	■	■
300 Bar Cylinder	●	●	●	●
International A-Clamp Valve	■	■	■	■
DIN Valve	●	●	●	●
SMB Pouch	■	■	-	-
Ergonomic Carry Handles	■	■	■	■
Tank Positioning Strap	■	■	■	■
Cylinder Cam-Band	■	■	■	■
Twin Set Cam-Band	●	●	●	●
Chest Strap	■	■	■	■
Snorkel / Strobe Loop	■	■	■	■
Stainless Steel D-Rings	4	8	6	6
Accessory D-Rings	2 x 25mm	2 x 25mm	-	-

Key
■ - Standard ● - Optional Upgrade



dive time



Parker Diving Ltd T/A A.P. Valves
Water-Ma-Trout Industrial Estate
Helston . Cornwall . TR13 0LW
United Kingdom

Tel: (+44) 01326 561040
Fax: (+44) 01326 573605

www.apvalves.com

A.P. Valves

Design by Creative Direction Limited 01208269388

Photography by Jeff Parker, Mike Greenslade & Keith Salmon



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