

better together

PROTEC[®] membrane pressure vessels



Regional Presence | Experience | Innovation



As the world population grows, the quality of water becomes of vital importance for people and companies all over the globe. Water shortages create challenges that inspire water supply companies to come up with appropriate solutions.

Teaming up with Bekaert will give you access to new possibilities to strengthen your competitive edge, based upon three pillars:

- Regional presence
- Experience
- Innovation

Let us explain what you can expect from our company and why we are different from any other competitor.

Imagine what we could do together ...





California - USA

Spain



Regional presence means faster supply and more flexibility

With our regional fabrication facilities in California and Spain, we can deliver faster than any other supplier, regardless of vessel length, pressure, port location or features. As a total solution provider, you can count on our sales network for optimizing your product and providing support from concept to start-up; in addition to vessel service throughout the life of a system.



Global experience helps provide safe and high quality products

Today, vessels are expected to last 25 years or even more. To consistently meet this expectation takes experience. Bekaert Progressive Composites brings this experience together in a company that sets the standards to meet your increasing demands. Our company is your best guarantee to meet your needs and your customer's expectations.



Cost-saving innovation is our focus

It is our goal to reduce your costs for filtration systems without compromise on quality. It is a Bekaert tradition to think one step further and develop even better performing system layouts, improved system construction and superior vessel / membrane handling. These innovations have one single objective; create value for your business and reinforce your competitive edge. The introduction of new larger diameters and new vessel designs are tangible proofs of this mission.

What is the value of experience?

Selecting PROTEC membrane pressure vessels provides more value for your money. Our experts are recognized as industry leaders and pioneers with an impressive track record of market leading technology. Their experience and profound knowledge of customer needs makes it possible to provide real solutions to reduce your total system cost.

Together as
a team they
represent years
of experience

People make it happen

As industries mature and people change, it is easy to forget that people and experience create brands and that brands alone do not guarantee experience. The dedicated men and women that are behind PROTEC® products have that practical experience and many of these people have worked in our industry for years.

Together as a team their experience allows Bekaert to be the only company in the market that can actually claim their products to be next generation refinements which set the standard for others to follow.

ASME as the back-up

In the late 1980s the pressure vessel industry recognized after several failures that FRP vessels used as membrane housing needed to be built to established industrial safety standards to help ensure consistently safe products. From that time on, the ASME Code, Section X became and remains today the standard for design and fabrication of FRP membrane pressure vessels. As some suppliers in the industry are moving away from this time tested standard, we at Bekaert believe that the safety and reliability of our products can't be compromised.

Therefore, all Bekaert designs conform to the ASME Code and can be Code stamped at an additional charge if desired. Our 2 factories are certified by ASME and all new designs and any change in design follow the testing path that is required by ASME.



End-ported systems



Multi-ported systems



PROTEC®
cares about
the construction
and operation of
your system

PROTEC®-performance: earning your confidence

In many ways the PROTEC®-design is different than those of our competitors. Some differences are small, others are quite large. Our sales force around the world will be happy to explain all these features in detail. After that it will be clear that PROTEC membrane pressure vessels are designed to simplify the construction and operation of your system.



Reducing system cost and assembly time by innovative solutions

New technology helps in reducing both system cost and assembly time

Be ahead of your competition with cutting-edge technology

At Bekaert we focus on advancing system designs to reduce your cost. Our technology integrates the system manifolds and membrane pressure vessels which is key to your success. Multiple-porting with very large side ports is one solution where we continue to make breakthroughs.

And it pays off: the experience of our OEM customers proves that this new technology helps in reducing both system cost and assembly time.

How do you move to multiple-porting technology

There are many variables OEMs need to take into account to successfully apply this technology. The number of vessels to be connected together depends on the feed water velocity and the pressure loss. To come up with a personalized solution for your system, we have developed custom software and have trained our sales force intensively in order to assist in making the transition from the current standard technology. In addition, you can rely on PROTEC®-products to provide very precise tolerance control for easier and faster skid building. Tell us your needs and we come up with the solution that benefits you the most.





Larger diameters

It is clear to Bekaert that larger diameter membranes and pressure vessels make a lot of sense. It is the next step in optimizing system layouts and we intend to support the industry to make this a reality.

This is why Bekaert fabricated the first 18" products and why we are also investing heavily in 16" technology. For these larger diameters, our focus is again to create solutions for the practical problems dealing with these diameters.



Future developments

Bekaert is perceived as the technology leader. From the start we have been developing solutions for the needs of today and tomorrow. We focus on items that make our vessels last longer, require less energy, make them easier to handle... anything that brings value to you.

What partner can really help you out, at any time, anywhere in the world?

Let's talk about the unique PROTEC[®] design and why this is really different from other designs. Let's talk about how it reinforces your competitive edge. Your regional sales representative will be happy to explain them all in detail.

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