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Innovation from Corporate Partner

Packaging with the X-tra **VENTING – DOSING – CLOSING**



Premium quality for total customer satisfaction: founded by the Sander-Beuermann family back in 1958, today SABEU is a leading system supplier of microporous filter membranes and plastic components for the packaging, life sciences and medical fields as well as other industries. The company is the only manufacturer in the world that produces plastic components and membranes and also assembles them to form the end product.

Thanks to its decades of market and applications experience the company provides a high-quality product line under the FLUX[®] trademark within the packaging segment of its business. SABEU is pursuing very ambitious targets particularly in the development of this business division which includes the Venting, Dosing and Closing product segments. Dispensing Taps, Degassing Solutions (Inserts, Caps and Membranes) as well as Screw Caps are product groups within the wide-ranging portfolio that provides the "X-tra" quality, and they offer a wealth of unique selling points.

All the manufacturing processes including our in-house tool-making operations are carried out at "Made in Germany" sites. As well as providing our standard product portfolio we also undertake OEM projects and provide customer-specific services. The products in our premium FLUX[®] range meet the highest quality standards and provide excellent value. Great emphasis is also placed on international conformity in relation to food compliance.

A quality management system which is certified according to DIN EN ISO 9001:2015, DIN EN ISO 13485:2016 and DIN EN ISO 50001:2018 promotes maximum product safety, continuous improvement, and sustainability for the benefit of users. The issue of sustainability in particular is viewed from a very specific perspective:

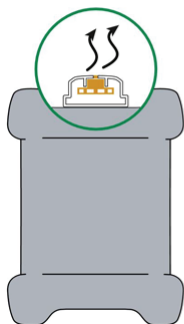
"Our stated aim of providing superb quality is based not least on the fact that we want to help the user prevent any environmental and human hazards by maximizing product safety", stresses Jennifer Hughes, the responsible sales manager for the company's Packaging division in North America.

Optimal venting

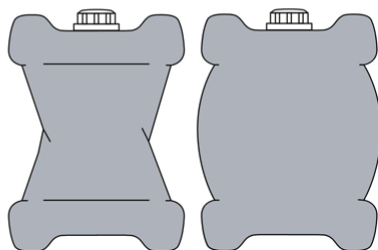
FLUXX® Degassing Inserts are fitted with water- and oil-repellent membranes which ensure that gaseous substances can escape, so there is no pressure build-up or drop in pressure in any of the many different types of containers. Appropriate use is also made of the company's Degassing Inserts: the membranes are not moistened by liquids and they therefore remain fully breathable at all times, so the container retains its original shape.

The degassing solutions are designed both as individual degassing inserts for integration into users' existing caps or with inserts which are already welded into the ready-to-use cap.

With **FLUXX®**
Degassing System



Without
degassing system



The swelling or collapsing of containers is successfully
prevented by using FLUXX® Degassing Systems



FLUXX® Degassing Inserts in three product sizes featuring
a range of different membrane solutions

Just in the past year three new versions have been developed for specific applications: F38 LOCK SN, F38 HP and F17 HF. The LOCK SN is a Short-Neck locking system which provides an optimal fit in manufacturers' standardized caps. The F38 HP (High-Pressure) withstands extreme pressures while also providing excellent venting. In the case of the F17 HF (High-Flow) a significantly increased rate of air flow is achieved.

"A small and apparently simple – but extremely important – detail gives our Degassing Inserts a significant competitive advantage: the patented drip-off edge is a real unique selling point and it ensures that the membrane remains permanently gas-permeable. Jennifer Hughes goes on to stress that: "Our Degassing Inserts can also be used in the food consumable sector in many international markets".

Unique dosing

The company's FLUXX® Dispensing Taps have helped users with the decanting of liquids for decades in many different applications. This product segment combines excellent leak-tightness and functionality. Over the years we have developed a wide range of products within this segment. The Dispensing Taps are suitable for all commonly used thread sizes for a variety of different containers such as bottles, canisters, drums and IBCs with an external thread ranging from DIN 38 to DIN 71 as well as plastic and steel drums with a 3/4" or 2" thread. The various product sizes can be supplied in two designs: with a 13 mm or a 23 mm outlet spout. Dispensing Taps with a 23 mm outlet spout enable the decanting of large amounts of fluids in a very short period of time. This series has an impressive average flow rate of over five liters a minute. Dispensing Taps with a 13 mm outlet spout are ideal for precision dosing procedures, in particular in the case of narrow threaded necks.



FLUXX® Dispensing Taps with a 23-millimeter outlet spout

The FLUXX® Dispensing Taps are used in a whole variety of different sectors, but mainly in applications relating to liquid food, hygiene and care products, cleaning agents, agrochemicals, and hazardous substances used in industry. Thanks to their unique twin-chamber ventilation system and their drip-off edge, these products enable fast and clean dispensing without “gurgling” or “dripping”. Another popular feature is the smooth-moving lever for ease of operation. As well as resistance to a multitude of aggressive chemicals, this product segment too can be used in the food consumables sector.

Reliable closing

All the products are ultimately intended to close containers securely. High-quality materials are the key to being able to do this. Dispensing Taps must be leak-tight when they are closed, but also provide high flow rates when they are open. When used in customers' caps, Degassing Inserts must ensure that fluids can't escape from the container while also renewing the air supply in order to provide constant pressure compensation. Vented Caps are ready-to-use solutions consisting of a combination of a degassing solution and a screw cap.

Furthermore, various cap versions in standard sizes of DIN 45, 50, 51 and 61 round off the portfolio, and they are also available with in-built degassing and sealing functions.



FLUXX® Closing Systems for many different containers



Ready-to-use FLUXX® Vented Cap with degassing function



Since 2010 SABEU GmbH & Co. KG which is based in Northeim in central Germany has been an integral part of the ALTENLOH, BRINCK & CO Group, a medium-sized family business which now has more than 1,600 employees around the world and a turnover of over 410 million dollars

Trends and visions

Interview with Jennifer Hughes

Ms. Hughes, just in the last twelve months three new fully automated machines for the assembly of Degassing Inserts have been brought into service in order to expand the company's production capacities. What does this mean for the business?

Jennifer Hughes: Due to the incredible demand and growth of the Packaging division over recent years we have increased our production capacities. This has involved incorporating additional fully automated machines and expanding the sales team.

The new machinery for Degassing Inserts has enabled the production and monitoring processes to be further enhanced. We will continue with this strategy as a commitment to our customers to meet the demand for our products.



Jennifer Hughes, Sales Manager
Packaging North America:
"Premium quality helps to avoid any
environmental and human hazards"

What's been happening over recent months, and what can the market look forward to?

Jennifer Hughes: In terms of our portfolio we've recently been able to unveil various new products in particular a Dispensing Tap with a DIN 63 thread as well as Degassing Inserts which provide higher rates of air flow and pressure build-up in the container. Further product innovations are already being planned. Supplementary measures for 2021 are the integration of another three machines for the Degassing Inserts and Vented Caps as well as the design optimization of our Dispensing Taps. We're also increasingly taking account of sustainability issues.

Your company is also focusing more heavily on international markets. What are your plans in this area?

Jennifer Hughes: We're positioning ourselves so that we can have successful sales operations in all the international markets. This involves the bringing together of the necessary HR resources, but conformity levels are also being enhanced to meet the specific market requirements in particular relating to food applications. In addition, we'll be raising our profile at trade fairs including virtually due to the new challenges that we're all now facing. So we're already planning to attend the Pack Expo trade fairs in the USA.

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