

INSIGHT NEWSLETTER

Q1 2018

Pneumatic Conveying Solutions

Understanding the challenges and needs that go along with bulk solids movement

Burkert Resist App

Making the search for the correct solution to use with aggressive media even easier

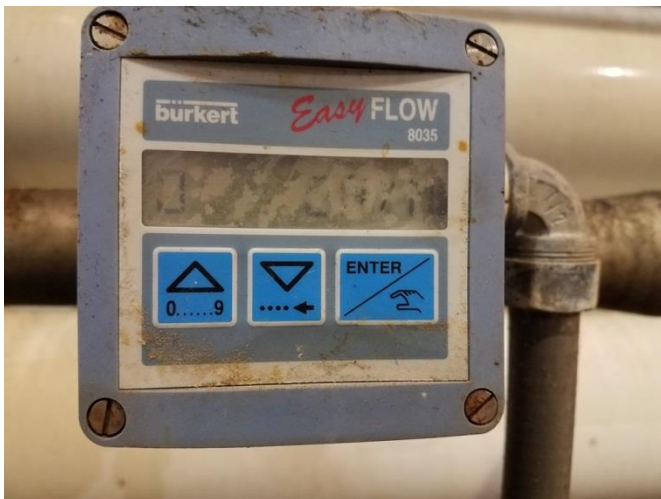
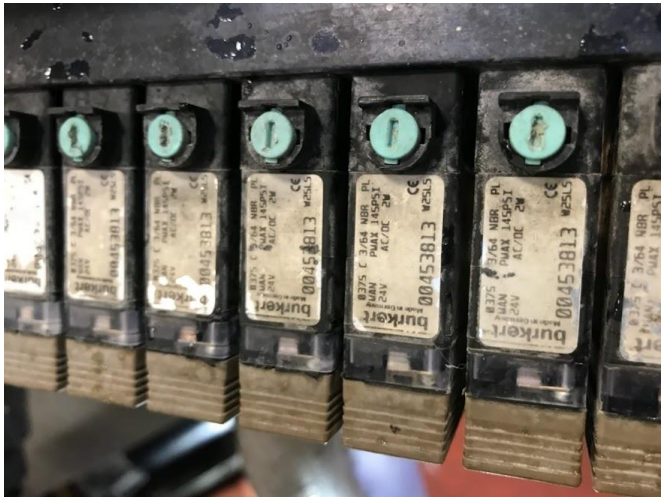
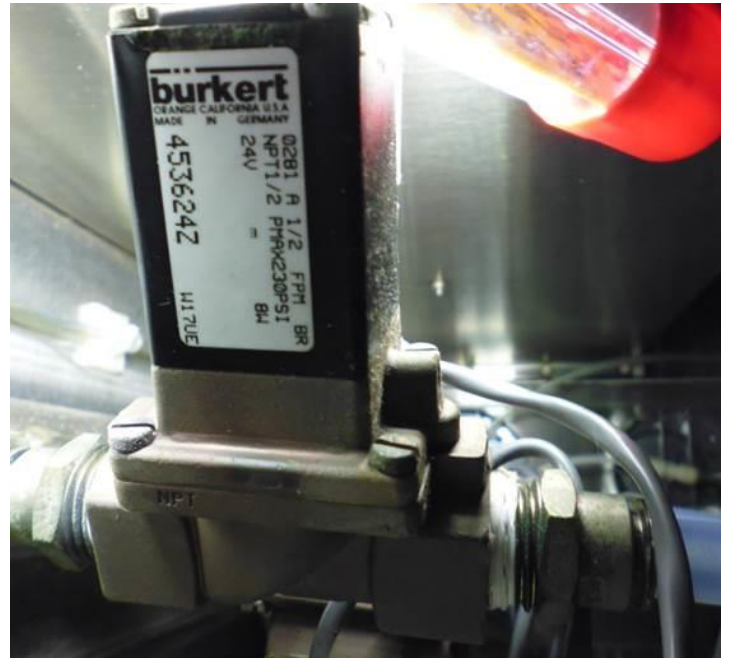
New Video Highlights

The Evolution of a Solution and the Hannover Fair introduction give a peek into the capabilities and the culture of Burkert



We Work Hard for the Money (because you do too)

When we receive photos from our customers looking to get replacements for products like those shown here, we're both disappointed and delighted. Disappointed because our goal is always to provide a product that just lasts and lasts, but delighted to see that some of these products have been worked very hard, for a very long time and in some rough conditions. The Type 0281 – is REALLY old as you can see from the date code on the label (July of 1995) – and just now needing replacement.



Improved Flow Control in Pneumatic Conveying Systems – Moving Results

For many industries, pneumatic conveying brings a number of advantages, not least the lack of moving parts and system flexibility. However, it is essential that such systems are properly controlled in order to maintain efficiency and the quality of the product in transit. Delivering effective process control systems requires an understanding of both, the technology and the industry itself.



Challenges and customer needs

Within the processes of pneumatic conveying, there are several challenges to be solved in order to fulfil all customer needs. Among others, that is a flexible pneumatic conveying, a sensitive handling with different bulk goods, the compensation of air leakage as well as an uncomplicated revamping possibility.

Flexible conveying

A flexible conveying system is advantageous under different aspects. When it's necessary to switch between different conveying distances or pipes for example, it requires a flexible air flow while conveying pressure is controlled. Additionally, a flexible air flow controller is needed when there are different products with changing properties and conveying demands. Apart from that it needs to control much higher pressures when starting and ending conveying and a conveying should also be flexible within the use of other gases than air, e.g. argon, nitrogen or oxygen.

Uncomplicated revamping

With the use of pneumatic conveying you make a reasonable investment into a fit-for-purpose solution. It offers an overview of all process data and is also a preventative solution against blocking of pipes with bypass conveying method.



Typical issues and disadvantages

Our products for pneumatic conveying compensate for several issues, which appear within the use of manual or high-end devices. Manual devices are very inflexible, there is too much manual work and many possible flaws. High-end devices are also inflexible and require detailed engineering upfront. Additionally, the calibration of control electronics is tricky. The Flow Rate Controller Type 8750 from Bürkert solves these problems.

<http://www.burkert-usa.com/en/Products-Applications/Customised-Solutions/Applications/Improved-flow-control-in-pneumatic-conveying-systems>



Customer Success Story – using ELEMENT

A new formulation line for insulin vials



The Danish Pharmaceutical Group Novo Nordisk has chosen Bürkert, the fluid control specialists, to equip its latest production line for the formulation of insulin vials at its site in Chartres (Eure-et-Loir), France. A technical solution supported by Bürkert allows the pharmaceutical leader to simplify their processes and increase productivity.

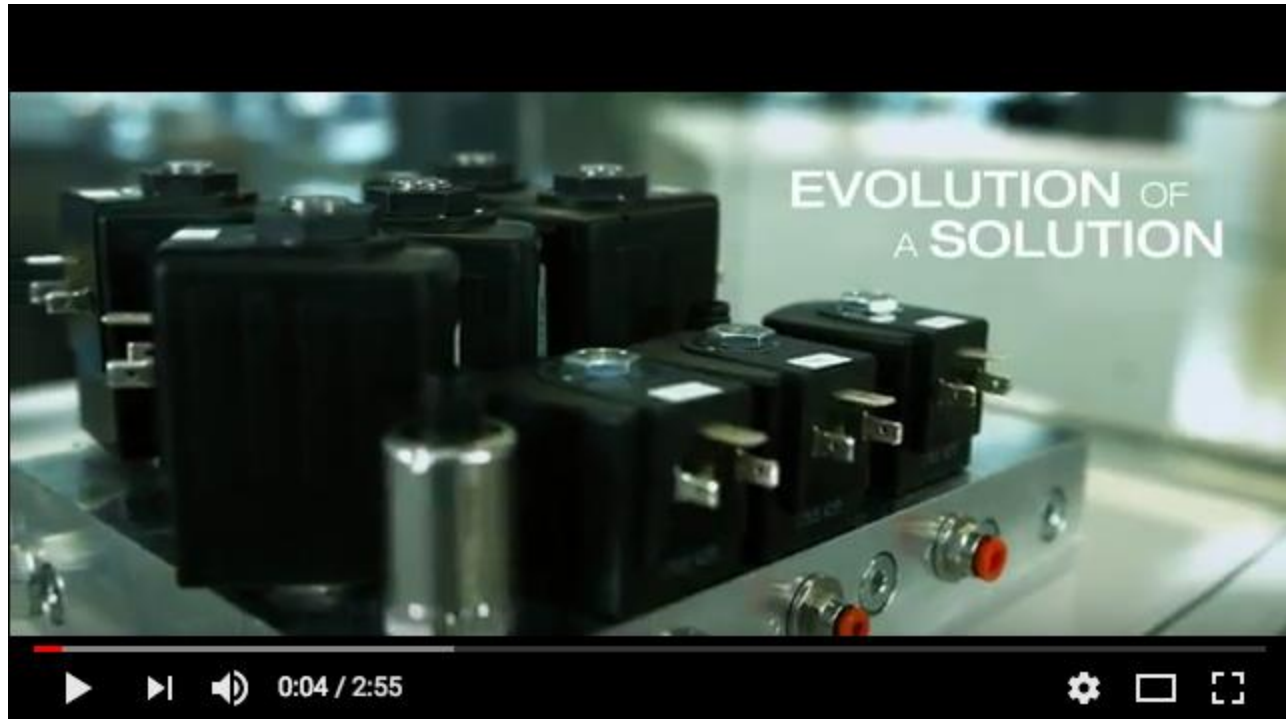
This plant is dedicated to the production and packaging of insulin products with nearly 20 million Euros invested to increase their capacity and build the latest in vial production facilities. “Our Chartres site is divided into three activities – NNP1 unit assigned to the production of 3 mL cartridges, NNP3 unit reserved for packaging products and the new unit will be NNP2, dedicated to the production of bottles” details Olivier Gilles, Technical Project Manager – On Site Vials Formulation Novo Nordisk Chartres. “The new production line will allow the site in Chartres to be a major focus for the production of insulin vials for the Novo Nordisk Group”.

Through its partnership with Bürkert, Novo Nordisk was able to devise a process solution that improved production yield, whilst simplifying its operability and maintenance. Validation of the installation is scheduled to be completed in September 2013, and production of the first batch of vials of insulin in 2014. Due to this successful collaboration, the pharmaceutical leader is planning to partner with Bürkert for a possible NNP1 unit revamp. “This unit is still based on the old technology. If ever we were to revamp NNP1, I have no doubt that we will try to transfer the benefits of the technologies used on the NNP2 unit”, concludes Olivier Giles.

In a traditional centralized automation design, this type of information and intelligence is typically located remotely in a control cabinet. Individual runs for both electrical and pneumatic connections are then made to each valve. By contrast, decentralized automation employs a single pneumatic connection and a single bus connection into the field. The ASI gateway is connected to a central PLC and can send the information further onto a SCADA system. To discover more about this Burkert ELEMENT customer reference, [click any image](#).



NEW Video featuring the Burkert Process in The Evolution of a Solution



At Burkert, we set the goal to identify your individual requirements and fulfill those efficiently. Our in-house machining production continuously thrives to upgrade flexible innovations like one-piece-flow manufacturing of customized solutions as well as setup time optimizations (SMED). The compatibility of tools & software across all units enables a fluent evolution from single prototypes to serial batches.

Click on the image above or copy/paste this link to reach the full video on YouTube highlighting the quest we go on for the Evolution of a Solution. <https://youtu.be/g14yvFgWxQ0>

Hannover Fair Intro Video

1.5 minutes of video. It's been said that a picture is worth a thousand words. Given that there are dozens of images and clips featured in the Hannover Fair Intro video – each giving a glimpse into the culture, capabilities, portfolio and application knowledge that Burkert offers – this video captures so much of what we are about, without uttering a single word. Click the image or hyperlink to see the entire video.

<https://youtu.be/RTKGONqatC8>



Are you looking for a material resistant to an aggressive fluid?

Combine fluids and materials with each other and check the chemical resistance with our new Bürkert resistApp. Now available at the website and to download at the App Stores. We are pleased to introduce the "Bürkert resistApp" is now available to download at the App Stores - as well as an online-tool at the Bürkert website.



Check chemical resistance - Quick and Simple

- Search for a fluid or a material by name or search for chemical formulas of fluids
- Get a result right away and find compatible materials for a multitude of media

Try out our multiple search function - and check several fluids or materials simultaneously and in combination

- Add or remove as many fluids and materials as you like
- Get a match that pairs with your combination as a result

Get general information on each material

- See general information on chemical resistance
- Check approved temperature ranges

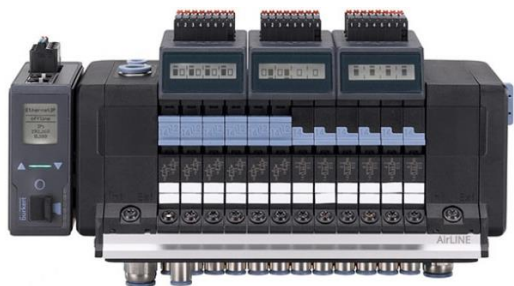


Please note:

- The information provided in the "Bürkert resistApp" about the chemical resistance of materials is based on the data of our chemical resistance chart.
- Since corrosion performance is influenced by several factors, the information contained in the App should be treated only as a guide and is not necessarily valid for all operating conditions and use cases.
- For this reason it is also not possible to search for temperatures or concentration. The App contains only general information on permissible temperatures as well as average chemical concentrations.



The Product Round-Up



AirLINE Type 8652 - New valve island enhances process reliability

The new pneumatic valve island type 8652 AirLINE is especially developed for applications in the pharmaceutical, cosmetics, food and beverage industries as well as for water treatment applications. It offers users adjustable monitoring and diagnostic functions that improve system availability and process reliability, while at the same time enabling preventive maintenance.

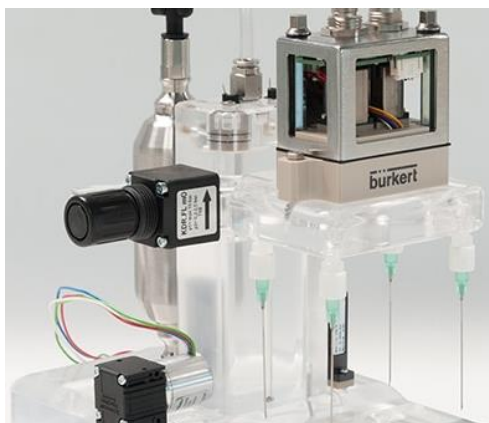
<http://www.burkert-usa.com/en/Company-Career/What-s-New/News/New-valve-island-enhances-process-reliability>



Diaphragm valve solutions & Competencies

Control valves, on/off valves or hygienic specialty valves, Burkert's diaphragm valves are according to the customers individual requirements. Our product range includes different types of diaphragms, e.g. Gylon®, pneumatic and electromotive actuators as well as all suiting bodies. The optimized geometries in our forged bodies can improve your diaphragm lifetimes and save operation costs.

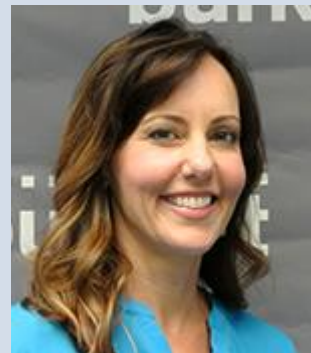
<http://www.burkert-usa.com/en/Company-Career/What-s-New/News/Diaphragm-valve-solutions>



System Platform for Time-Pressure Dosing

If liquid media are to be precisely filled in small and varying amounts in medical or laboratory technology, the pharmaceutical industry or food production, the time-pressure dosing method is often a perfectly suited blend of flexible and hygienic.

<http://www.burkert-usa.com/en/Company-Career/What-s-New/News/System-Platform-for-Time-Pressure-Dosing>



Getting to know Ü

Employee Spotlight – Ursula Johns – Marketing & Trade Show Coordinator

Recently celebrating 20 years @ Burkert, Ursula Johns, began as an Executive Assistant to the President. Her background and degrees in business & German were put to good use in the years of solid growth that she has been an integral part of achieving here at Burkert USA.

What began as short term coverage in the Marketing department has led to years of experience on this growing team. Similarly, what began as a responsibility for a dozen tradeshow and events has expanded to about 48 or more in any given year. Her mobile phone has become a “life alert” button of sorts for our sales & marketing team.

When she's not at the office – Ursula is wearing the supermom cape keeping tabs on two high-schoolers and a husband, but manages to find time to escape to the gym for some “me time” and, if possible, squeezing in a quick manicure before it's off to the next event.

TEAM Burkert – Giving, Doing, Appreciating

The social responsibility that Burkert Corporation shares globally is also practiced locally in many of the activities and events that we participate in, sponsor or donate to each year. Thousands of dollars each year are contributed by the US employees, much of which is matched by the Burkert corporation. Here are just a few examples of the team's contributions of time, money and goods toward a variety of causes – each dedicated to improving the quality of life for others.

A partial list of those organizations that our team has worked with in the past 12 months includes: Angels & Sparrows Food Pantry, Cystic Fibrosis Foundation, Davidson Land Conservation, Levine Children's Hospital and Levine Cancer Institute, American Red Cross (Hurricane Relief Fund), Breast Cancer Research, Adopt-A-Family for Christmas, Juvenile Diabetes Research Foundation, Hope House, The Friendly Center, Second Harvest Food Bank, Supply Donations to Puerto Rico after Hurricane Maria.



The team continues to actively search out ways to participate in assisting others – whether in participation of 5k runs, volunteering at a local food pantry, donating supplies to struggling regions, contributing money to over a dozen causes each year – or most recently – assembling Easter baskets that each contributor paid for out-of-pocket in order to ensure that at least 24 special kids have a basket of their very own this year.

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Burkert USA INSIGHT Newsletter

