

USA API manufacturer adopts ChargePoint Technology's single use solutions for toxic charge performance

A leading specialty chemical manufacturer with its headquarters based in Germany and operating in over 100 countries, producing a range of active pharmaceutical ingredients (APIs) for its customers, predominantly specialising in small molecules has implemented ChargePoint Technology's single use transfer solutions in one of its US manufacturing sites.

This chemical manufacturer has been using the ChargePoint PharmaSafe® containment valve for the safe, contained transfer of highly potent pharmaceutical powders and APIs to protect operators since 2011.

Challenge

Recently, the manufacturer transitioned to a contract services operation and therefore experienced a need for more flexible manufacturing to meet different customer demands. It was at this point that the company decided to update one of its US facilities, which includes several manufacturing buildings and is one of the biggest API production sites in the world.

As ChargePoint Technology's containment transfer solutions were already being used to great success in several of its vessels at this facility, it was a natural decision to continue the partnership for this equipment update project by exploring further solutions that can ChargePoint can offer.

Solution

ChargePoint fully understood the needs and requirements of the project and worked collaboratively with the company to perfectly match the correct solutions to their needs.

The manufacturer was looking for a simple and safe solution for performing toxic charge, and after several discussions, took the decision to implement ChargePoint Technology's Single Use Split Butterfly Valve (SBV) Passive in March 2020 in conjunction with the current ChargePoint PharmaSafe® containment valves in place at the facility. The passive provides the flexibility to adapt to different product needs, removing the need for time consuming cleaning and validation while also reducing costs. ChargePoint Technology's ChargeBags were also chosen to pre-weigh 200g of seed quantity of highly potent material into a tank for the crystallization portion of the process. This gave them the ability to simply discard the dirty passive and bag post charge.

As with the SBV technology already in place, the single use solutions allow the company to transfer HPAPIs, while fully protecting operators from contact with hazardous chemicals.

"The support and advice from the ChargePoint team was professional and extensive, and their products are reliable and effective"

Unexpected Challenge

The manufacturer was experiencing increased demand for its APIs and ChargePoint had to meet tight shipping deadlines, ensuring that the relevant equipment would arrive on time.

This challenge was exacerbated by the COVID-19 outbreak which created delays across all pharmaceutical supply chains. ChargePoint had to work hard to ensure timely delivery of its single use containment solution in challenging circumstances but was able to meet the company's needs, due to carefully planned stock levels and the ability to manufacture single use technology on-site at its manufacturing facility.

ChargePoint Technology Single Use Solutions



ChargeBag PE-S



ChargePoint Single Use Passive



ChargeBag PE-S with Single Use Passive

Outcome

The single use SBV passive is a disposable version of ChargePoint's passive half of the valve. Together with the active half of the valve, which is attached to process equipment, it forms a complete hybrid system to ensure users can take full advantage of the benefits of single use technology, without compromising any performance.

In summary, the benefits of the single use solution include:

- More efficiency: using a single use passive solution reduces the need for cleaning and validation.
- Single use technology can provide a cost-effective solution.
- Convenience and flexibility: the single use passive and ChargeBag PE-S can be disposed of after each use, creating an agile manufacturing environment.
- Using the single use passive means that the manufacturer can reduce the API/excipient ratio, ultimately lowering the toxicity when mixing to make the final product.

From the Customer

"ChargePoint is capable of offering solutions to problems that you may not have been previously aware of. The support and advice from the team was professional and extensive. Their products are reliable and effective, and if you have an application that you need some guidance with, they are always open to discuss it. I would always recommend ChargePoint and I am looking forward to continuing our partnership."