



Pharma/Biopharma Fluid-Handling Solutions

Equipment for the efficient, safe and reliable transfer of fluids
used in pharmaceutical and biopharmaceutical production



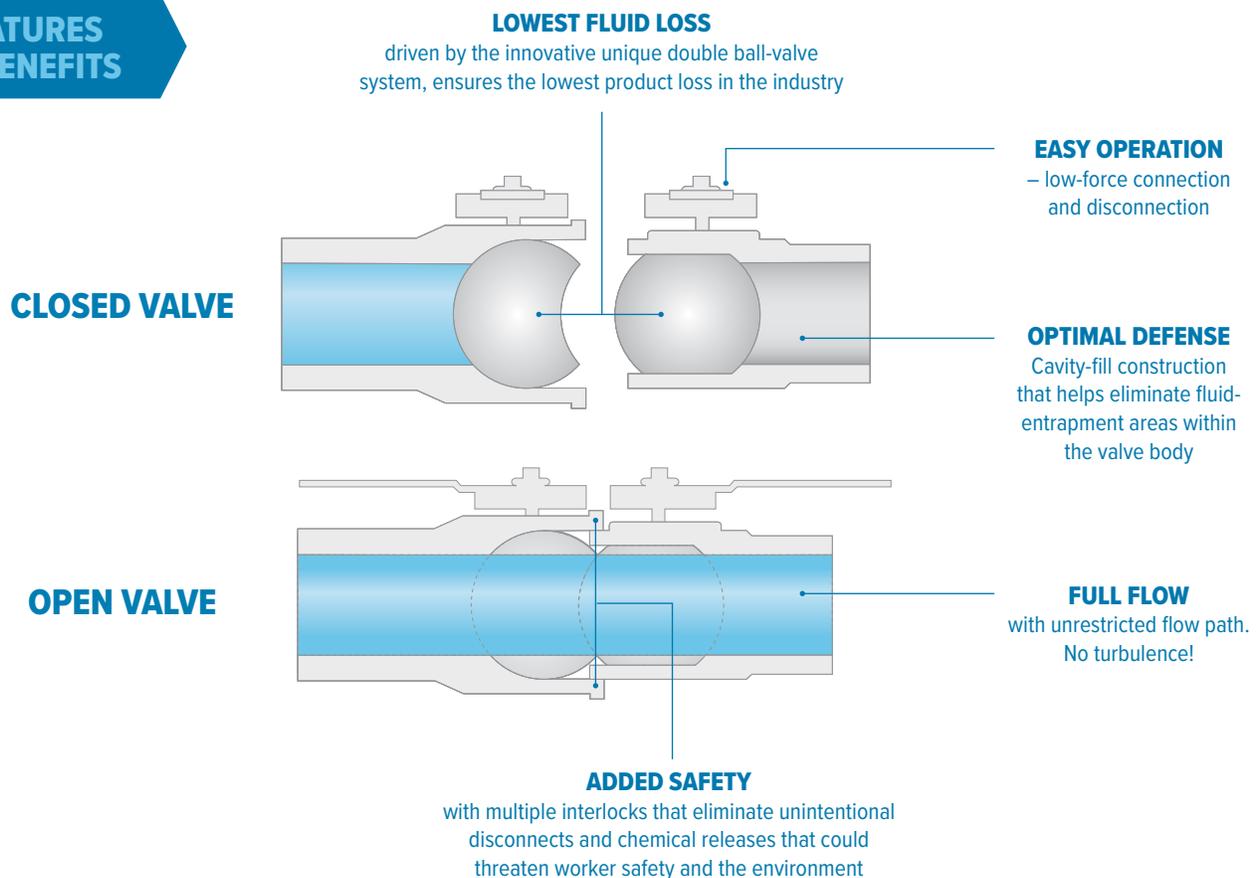
Epsilon®
Coupler

Ensuring Protection of High-Value Pharma/Biopharma Fluids

The manufacture of pharmaceuticals and biopharmaceuticals requires the transfer of high-value and oftentimes hazardous or corrosive fluids into the production facility. Whether the fluid is water or ethylene glycol used in a chiller system, or different types of chemicals and solvents used in production processes, attaining and maintaining reliable, risk-free product containment is the most critical challenge within the production process.

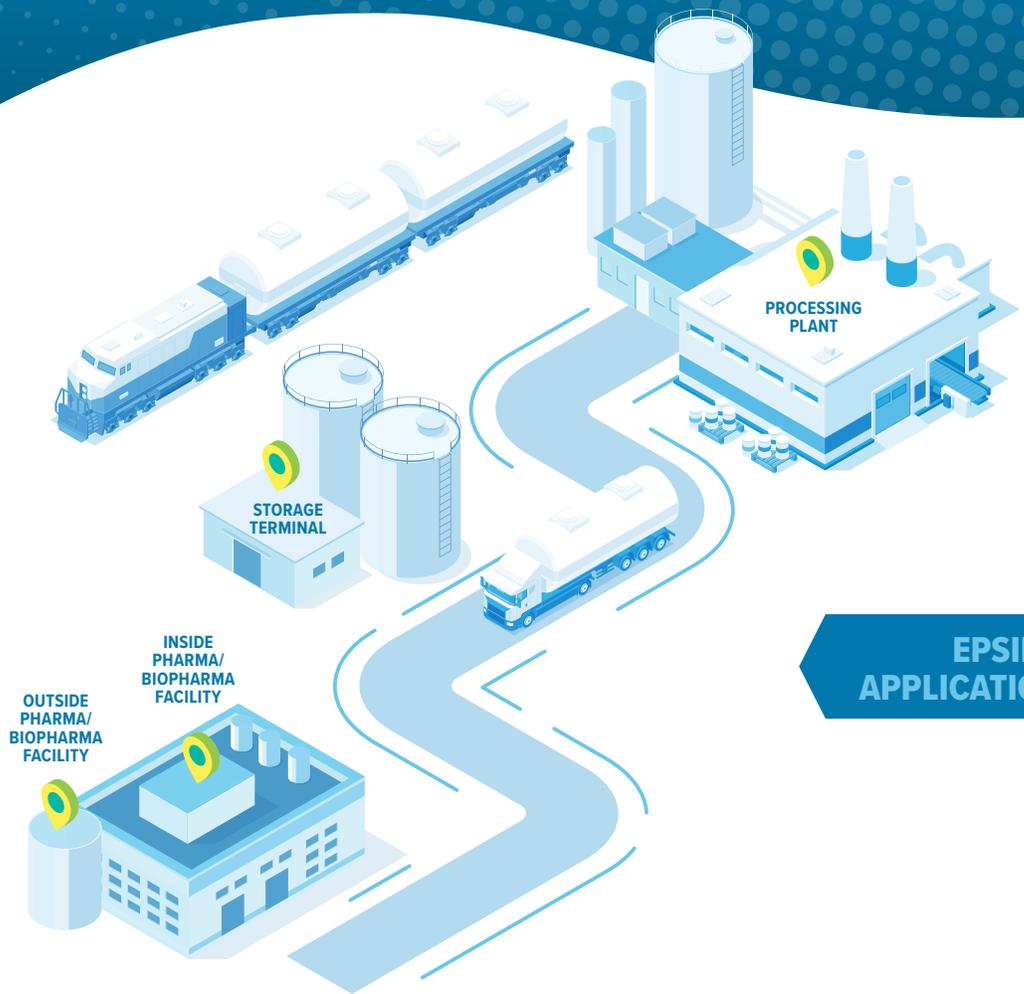
In this realm, OPW Engineered Systems offers the **Epsilon® Dry Disconnect Coupling** as a way to help the manufacturers of pharmaceuticals and biopharmaceuticals reliably “control their controlled environments.”

FEATURES & BENEFITS





Epsilon®
Adaptor

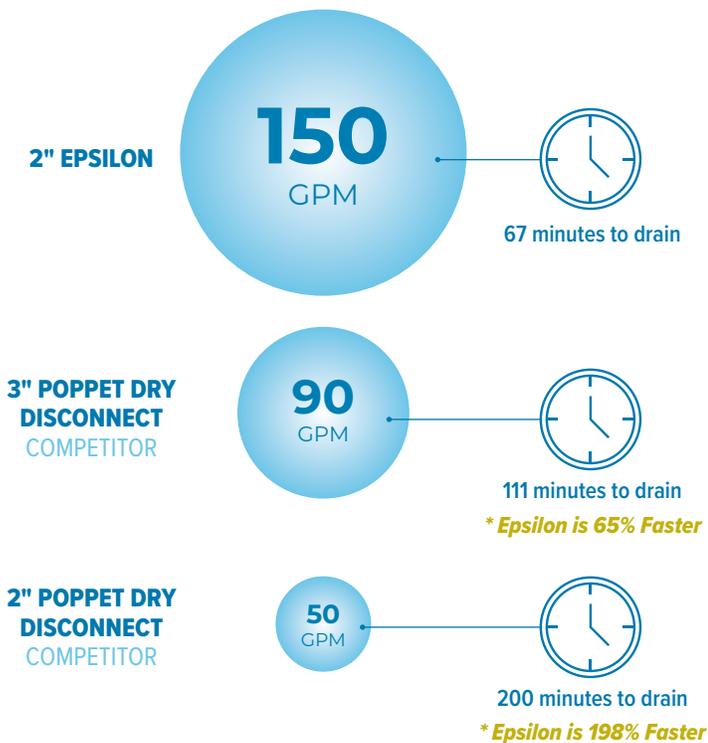


EPSILON APPLICATIONS

FLUID-TRANSFER RATES

Epsilon's unobstructed flow design results in significant fluid-transfer rate improvements—up to 198% faster when compared to other dry connectors with a poppet design.

THE EPSILON DIFFERENCE



1 cc



EPSILON FLUID LOSS
 Upon separation 1 cc of fluid (equivalent to one-quarter of a teardrop) remains on the nose seal, which can be easily and quickly wiped away.

4 mil



COMPETITOR FLUID LOSS
 Competitive bayonet-style couplings can have 4 milliliters or more (the amount of cough syrup given to a child) remain on the nose seal or drip to the floor.

OPW Loading Arm Systems

OPW offers the industry's most complete line of pre-engineered loading-arm systems for use in bulk fluid-transfer applications, including high-purity options and those that are common in the manufacture of pharmaceutical and biopharmaceutical products.

OPW goes above and beyond to offer loading-arm system features and benefits that its competitors can't or won't including:

- Third-party in-house x-ray of all components
- Robotic welding of all parts
- Seamless pipe connections
- Grinding of swivels to eliminate potential product-entrapment areas

This commitment to loading-arm excellence has enabled OPW to become the acknowledged leader in producing loading-arm systems that can meet the most stringent fluid-handling requirements in pharmaceutical and biopharmaceutical manufacturing.



Why OPW

For more than 130 years, OPW has been "Defining What's Next" in creating safe, efficient and reliable solutions designed to solve difficult fluid-handling challenges across a wide range of industries and markets. Today, OPW offers solutions that can overcome a number of fluid-handling challenges, such as helping to prevent safety hazards, simplifying system operation and maintenance, and increasing operational efficiency.

OPW is the only developer of fluid-handling systems that offers a best-in-class combination of local factory support, in-house machining, welding, X-ray, assembly, testing and packaging. OPW is also the only company that is confident and capable enough to offer the OPW Promise: We will not consider the job done until all client expectations are met or exceeded – each and every time.



Scan here to learn more about OPW Pharma/Biopharma products