



## OUR HERITAGE

### ORIGINAL VALVE PARTNER

Our experience began in 1990 when we introduced inert isolation valves for the management of aggressive and corrosive liquids found in bio-medical instruments. Our plastic inert diaphragm valves are used in clinical chemistry, diagnostic equipment & kidney dialysis applications handling aggressive medias, blood products, body fluids, reagents, diluent, and disinfecting agents.



### TRUSTED VALVE PARTNER

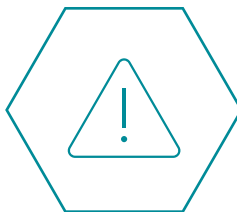
Humphrey has over twenty years of partnering as a medical diagnostic valve supplier. We recognize that slide-stainers are getting smaller for point-of-care applications or larger to handle laboratory work flows. Our engineers pursue innovative design solutions that best fit our customer's needs in niche diagnostic medical applications in order to meet the industry demands.



## ENGINEERED SOLUTIONS

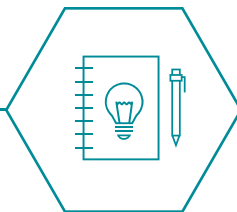
Humphrey's Engineered Solutions team partners directly with the manufacturer's engineering team when designing an custom valve solution. Through trusted collaboration, combination of core skills, and aligned purpose we can integrate our products and other elements to meet design requirements, easily integrate into production processes, and offer low costs to our customers.

- Select from a variety of proven and unique valve designs and proprietary sealing technologies.
- 25 years experience of collaborating with client engineers, acting as their fluid system control partner.
- Regulatory experience and process control systems in place for medical devices.



### CHALLENGE

We begin working closely on a peer-to-peer basis with your engineers early in the design process to understand your needs.



### CONCEPT

Often we present multiple concepts and will recommend a design that provides maximum benefits to you.



### SOLUTION

We finalize the design using proven Humphrey valve technology and assist you in moving quickly from prototype to production.



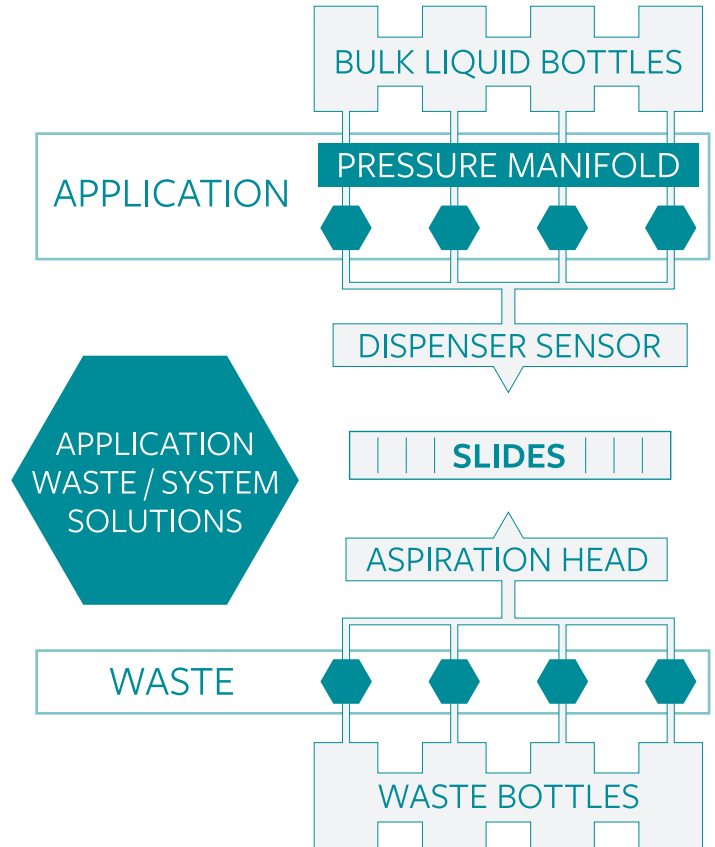
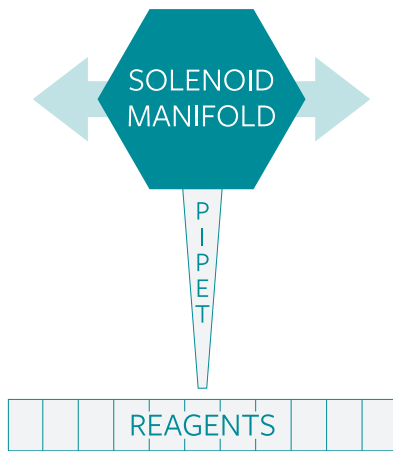
### RESULT

We implement your solution, measuring actual results to the original technical, commercial and schedule expectations. We continually explore ways to reduce costs.



## DIAGNOSTIC SCHEMATIC

Humphrey's product portfolio offers a variety of solutions for diagnostic medical applications. Providing automation and material handling for cleaning fluids and expensive reagents with precise and consistent staining results that lead to easier diagnosis. Our Life Science Group is capable of providing all valves in your next innovation.



## PROVEN SOLUTIONS



**APPLICATION  
WASTE / SYSTEM  
SOLUTIONS**

### Application & Disposal of System Solutions

- **Completely isolated** flow path from the solenoid actuator.
- Flow path **materials of construction** suitable with most solutions.
- **Liquid proof coil** preventing fluid entrapment leading to failure.



**SOLENOID  
MANIFOLD**

### Material Handling / Automation Solutions

- **Very Compact**, lowest cost manifold mt solution we offer.
- **Very low leak rates** possible.
- **Low power consumption**, oxygen compatible.