

# SEMICONDUCTOR MANUFACTURERS WE HAVE YOUR VALUE.



*The engineers at PeterPaul develop valves that support new technologies in the semiconductor industry and new product development is a core competency for PeterPaul. The valves are manufactured in environmentally conscious, EPA compliant facilities in the US. We supply valves to large equipment manufacturers and our valves are shipped all over the world.*

## **Features Available:**

- > High purity applications, subject to exacting requirements, clean flow and millions of cycles
- > Produce welded tubes that do not leak providing smooth operation
- > Wide variety of voltages are available suiting different applications like low watt or low power
- > Several seal materials that accommodate different media
- > Large variety of coil electrical connections available
- > Type of ports: NPT, UNF, BSPT and SAE
- > Total temperature range:
  - (Class A, non-molded coil rated at 105 degrees C)
  - (Class F, molded coil rated at 155 degrees C)
  - (Class H, molded coil rated 180 degrees C)
- > Certifications: U.L., CSA, NSF

***Why our valves? Because they work... period.***

 ***peterpaul***<sup>TM</sup>  
EXCELLENCE BY CONTROL

[www.peterpaul.com](http://www.peterpaul.com)

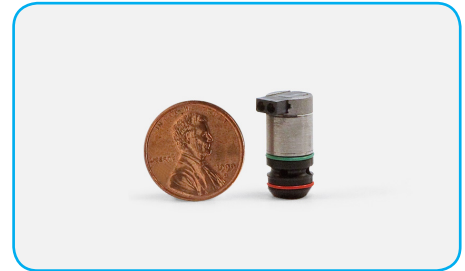


# SEMICONDUCTOR VALVES

*PeterPaul valves are ideal for electronic devices, instrumentation and portable analyzer applications in the semiconductor industries. All PeterPaul valves are engineered to handle your most demanding operating conditions. Rest assured: no failure, bubble tight and smooth operations for all your applications.*

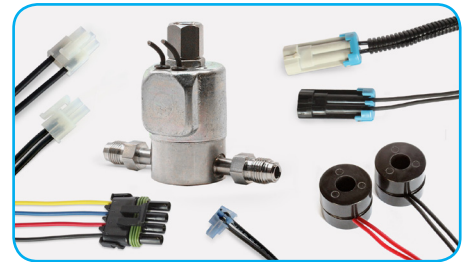
## Compact Valve

- > Small and discrete valves for small spaces
- > Lightweight valves when portability is a need
- > Quiet and smooth operation
- > Low power and energy consumption provides efficiency and a reduces environmental footprint



## Clean & Quiet

- > A welded body to the sleeve and the weld in fittings for port connections providing leakproof and cleanliness
- > Lead wire color, size and length can be provided on any PeterPaul valve for visual distinction and pin connectors for easy assembly
- > Accommodate different pressures and both high or low



## Manifolds

- > Stacking multifunction valves (up to 10 stations) is easy due to PeterPaul's design and extremely cost effective
- > The simple manifold mount allows for many different applications based on the number of valves needed
- > Valves are available in aluminum, stainless steel, brass and plastic
- > 10-32 ports or manifold mount



## Applications

### Printed Circuit Board Manufacturer

- > Customer has a product that was developed for them. Inherent with in the design were production flaws resulting in high fall out rates.
- > PeterPaul conducted a feasibility study as to fit and function.
- > As a result a re-engineered design improved reliability; improving repeatability of the pick and place machinery.
- > Due to the control of air flow on pick and place machinery spindle, PeterPaul was able to increase accuracy and speed over previously designed product.

### Semiconductor Manufacturer

- > Customer could not find a solution to meet the life cycle requirements for system.
- > PeterPaul engineered a Teflon coated valve that exceeded the life cycle specification from the customer.
- > Installed in a refrigeration unit which resulted in lower temperatures to improve yield in semi-conductors.
- > This gave the customer additional expansion in the market that with the launch of next generation products used in the semi-conductor industry.