



## Vernay® Medical Products

Vernay is a world leader and innovator in the design and manufacture of sophisticated fluid handling components. As flow management specialists in the global medical market, we produce precision elastomeric products for critical medical applications.

Vernay meets the needs of medical device and diagnostic equipment manufacturers by offering a variety of existing products. These products are ready to be designed into your application, providing cost-effective, safe and reliable fluid handling. If we haven't already engineered the part you need, we can work with you to co-develop a component that best satisfies your particular application's specifications. Either way, you benefit from our expertise in product functionality and our ability to create elastomeric materials that perform well in medical fluid environments.



*Elastomeric  
Fluid Controls*





*your applications + (our designs + materials) = new opportunities*



## Addressing issues in medical applications

### Assuring Safety

Critical fluid delivery applications demand precise, dependable performance. Vernay elastomeric medical components are engineered with safety in mind, from raw material selection to environmentally-controlled assembly and functional testing. Our medical products are produced according to Good Manufacturing Practices, and conform to USP Class VI standards to meet your product requirements.

### Handling challenging types of media

Finding components that perform well in the varied and sometimes harsh environments of medical fluid handling applications is another key issue. Finding a supplier capable of creating the right elastomeric material is the answer.

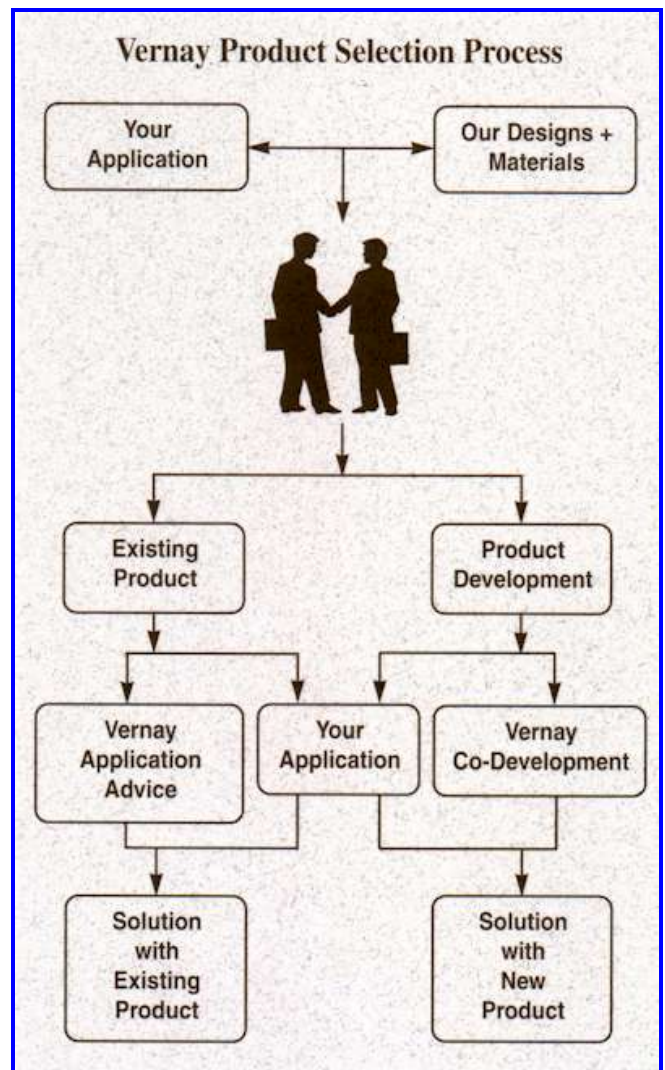
Vernay has over 50 years of experience in elastomer technology. Our medical customers rely on our elastomer know-how to create materials that are safe enough for contact with fragile body fluids, yet durable enough to withstand aggressive solutions and extreme temperatures.

Regardless of the product's environment, we have the ability to custom-design an elastomeric material that best suits the performance requirements of your device.

## Assisting you in selecting the right product for your application

Our medical products group is well-experienced in addressing the issues faced by medical device and diagnostic equipment manufacturers. We do not leave you alone with a parts catalog. As product function specialists, we work diligently to help you select the most effective component or assembly for your device or application. We will help you determine which product you need, whether it checks, dispenses, seals or actuates.

*New opportunities begin with your application needs. There are two ways we can provide a solution to your design challenges. First, we offer a variety of existing products ready to be designed into your application. Second, if we haven't already engineered the part you need, we can work with you to co-develop the component that best satisfies your particular application's specifications.*





## Vernay products

The following are our most widely-used standard products... designed to help you design.



**Umbrella valves** allow flow in one direction with backflow checking. Vernay umbrellas:

- provide safe, dependable operation.
- are self actuating.
- are easy to install.



**Duckbill valves** are in-line valves that do not require seats. Our duckbills:

- are non-position sensitive.
- reliably prevent backflow at low pressure differentials.
- allow patient movement without impeding fluid delivery in I.V. systems.
- Are self-cleaning.



**Diaphragms** transmit

pressure from one system to another without passing media or contaminants.

Vernay diaphragms:

- withstand temperature changes and diagnostic reagents.
- offer consistent, reliable pressure sensing.
- are excellent barriers to fluids.



**Bi-directional valves** feature a patented preload design providing two-directional flow and sealing at low pressure differentials.

Our bi-directional valves:

- minimize fluid leakage.
- allow for easy insertion and removal of I.V. catheters.



**Duckbill assemblies**

Ensure immediate forward free-flow with minimal backflow.

Vernay duckbill assemblies:

- minimize air entrapment.
- allow for quick system flushing.
- reduce residual air and media.
- provide non-restrictive fluid paths.
- Fit std 1/8" tubing (3.2mm) or std luer fitments.

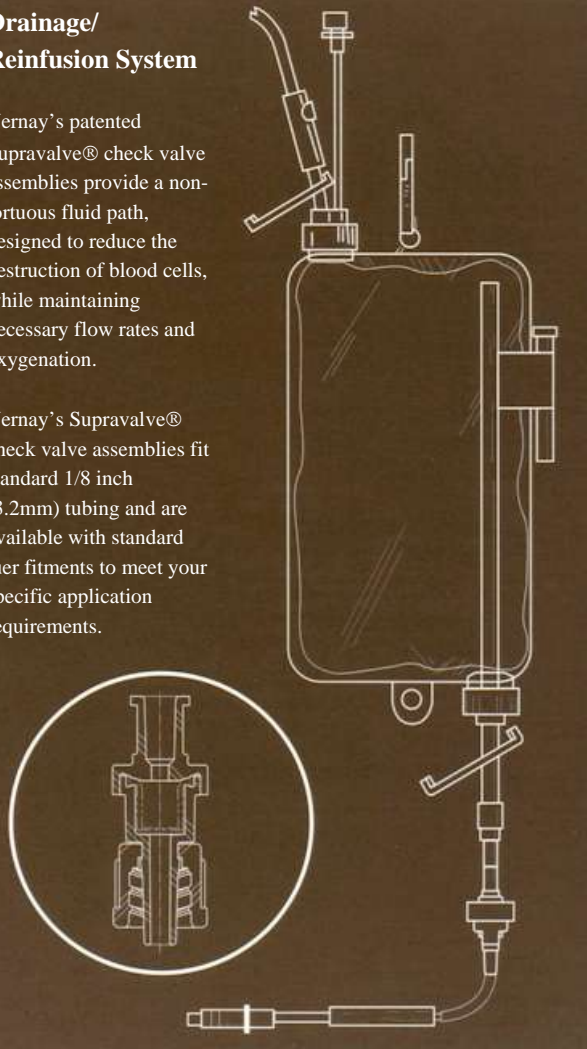
Applications	Umbrella Valves	Duckbill Valves	Diaphragms	Bi-Directional Valves	Duckbill Assemblies	V-Bail® Spheres	Combination Valves	Flapper Valves	Discs
Fluid Administration Sets	●	●		●	●	●		●	●
Fluid Pumps	●	●	●		●		●	●	●
Sealing/Anti-Reflux	●	●			●				
Sealing/Catheter Access				●					●
Drainage/Irrigation Systems		●			●				
Dispensing Systems		●			●	●	●		
Anesthesia Applications		●		●	●				
Cardiovascular/Autotransfusion		●		●	●				
Dialysis Equipment		●			●				
Diagnostic Equipment		●			●				
Respiratory Equipment	●	●	●		●			●	
Urinary Devices	●	●				●		●	●
Less-Invasive Surgery		●	●	●	●				



### Drainage/ Reinfusion System

Vernay's patented Supralvalve® check valve assemblies provide a non-tortuous fluid path, designed to reduce the destruction of blood cells, while maintaining necessary flow rates and oxygenation.

Vernay's Supralvalve® check valve assemblies fit standard 1/8 inch (3.2mm) tubing and are available with standard luer fittings to meet your specific application requirements.



## Quality commitment

Vernay is committed to the philosophy of continuous improvement in everything we do. Product quality is achieved through the stabilization and continuous improvement of all processes and activities that impact quality.

The Vernay Quality System has been established to enforce the vital component of the customer-supplier relationship.

The Vernay Quality System is based on the FDA Quality System Regulations, the ISO-9001 Quality System Standards, and the ISO-14001 Environmental Quality Standards.

Actual quality certifications, for each of our global locations can be downloaded in PDF format on our website [www.vernay.com](http://www.vernay.com)!



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