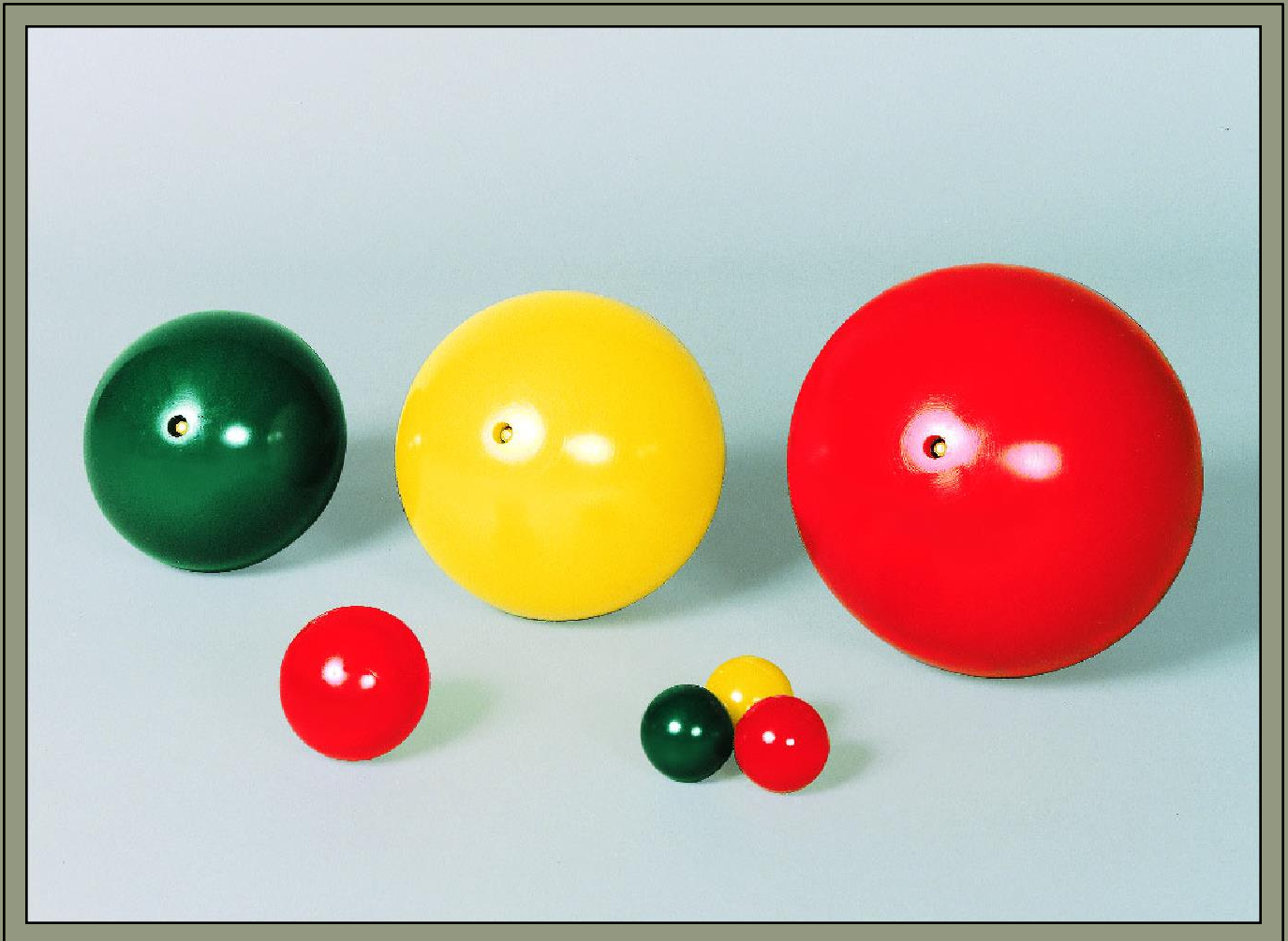




## **Girard Inflatable Spheres**



### **Girard Polyurethane Spheres**

- Minimize product contamination when used to separate fluids being transported through a pipeline
- Purge air and dewater during hydrostatic testing
- Confirm accuracy of flow meters
- Pass through out-of-round pipes
- Navigate through tees, ells, and full port valves
- Are suitable for automatic launching
- Remove condensation and paraffin build-up

### **Liquid Batch Separation**

Girard spheres are used for separating products such as gasolines, fuel oils, crude oils, jet fuels, and other petroleum products transported through a pipeline.

### **Line Testing**

Girard spheres purge air from the pipeline to ensure accurate hydrostatic testing. This is achieved by inserting a sphere ahead of the water column which displaces the air. Once the test is complete, the spheres are used to dewater the pipeline.

### **Line Maintenance**

Girard spheres maintain pipeline integrity by removing paraffin and condensate. During pipeline corrosion control maintenance, spheres are used to batch corrosion inhibitors.

### **Meter Proving**

Girard Prover Spheres gauge volume displacement to confirm flow meter accuracy. Historically, meter proving applications required a soft durometer sphere to ensure an effective seal during meter runs. Today, however, harder durometer spheres with increased resistance to additives are available to maintain optimum performance during proving.

### **Durometers**

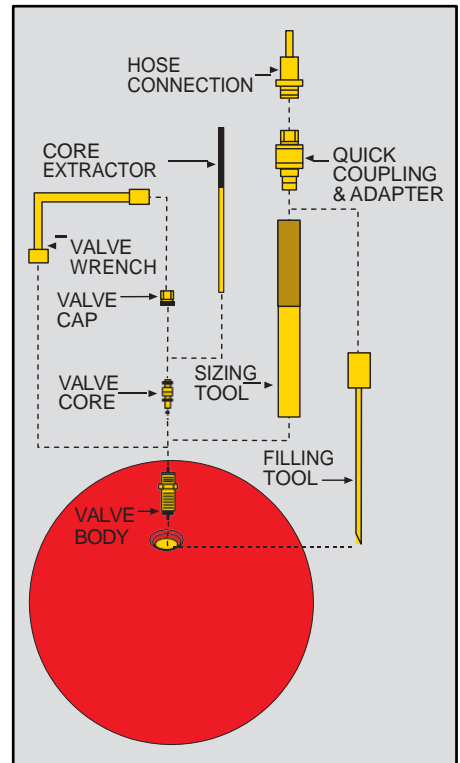
Girard spheres are manufactured in a range of durometers for meter prover and pipeline applications. The GSYPR (yellow) is designed for meter prover use. The GSGPR and GSRPR are harder durometer Prover Spheres that are designed for use when additives are present. The GSG (green) and GSR (red) spheres are designed for general pipeline applications.

### **Size and Inflation**

Girard spheres are available in sizes from 2" to 36". Maximum benefits are obtained when spheres are properly filled and sized. Specific applications will determine the most effective sizing and filler fluid to be used. In general, Girard spheres should be sized 1% larger than pipe ID. Information on recommended use is available from Girard or your local distributor.

### **Sphere Pumps**

A sphere pump is required to properly inflate a Girard sphere. The pump is easy to operate by placing the appropriate fluid in the filling cup, attaching the hose to the valve body in the sphere, and manually pressing the handle. The pump and attachments are available from Girard Industries.



**Unmatched performance and proven results.  
That's what you get from Girard.**

**Liberty Sales & Distribution, LLC**  
2880 Bergey Road, Suite F, Hatfield, PA 19440  
Phone: (877) 373-0118 Fax: (888) 850-3787  
Email: [sales@libertysales.net](mailto:sales@libertysales.net) Web: [www.libertysales.net](http://www.libertysales.net)



© 2003  
Girard  
Industries