



**PMCap-Nozzle** (patent pending)

**Access Component for Pressure Retaining Items**

- The **PMCap-Nozzle** is a self-reinforced access component that provides users with a quick and cost effective alternative for replacing or adding new nozzles.
- The **PMCap-Nozzle** does not require a precise hole cut for the new nozzle. Oversized holes, cut with large tolerances may be used. The hole does not have to be machined and hole edge and adjacent component surface requires no preparation.
- The **PMCap-Nozzle** encapsulates and replaces degraded component wall adjacent to the nozzle.
- The **PMCap-Nozzle** includes a corrosion allowance, or can be constructed of corrosion resistant material or with a corrosion resistant liner. **PMCap** and **Nozzle** may be constructed of different materials.
- The **PMCap-Nozzle** does not require but allows use of weld backing strips at installation.
- Attachment welds joining **PMCap-Nozzles** to pressure retaining items are full penetration. Final as-welded configuration may be ultrasonically examination to assure complete penetration and weld integrity.
- **PMCap-Nozzles** are designed and constructed to ASME Codes and supplied as ASME code-stamped components. The complete package includes hardware, partial data reports, drawings, installation instructions, material test reports, and certified calculations.
- **PMCap-Nozzles** are available in all sizes, material combinations, and pressure ratings.
- Installation time and costs for **PMCap-Nozzles** are significantly less than those associated with traditional nozzle additions or replacements.



**16" PMCap-Nozzle - Carbon Steel PMCap,  
304 SS Nozzle, and 304 SS Liner**



**8" PMCap-Nozzle – Carbon Steel PMCap,  
CrMo Nozzle, and 304 SS Liner**



**PMCap-Nozzles – Ready for Shipment**



**24" PMCap-Nozzle – Carbon Steel PMCap  
CrMo Nozzle, and 304 SS Liner**

For more information on the "**PMCap**" repair method refer to [www.pmcengineering.com](http://www.pmcengineering.com)