



## Liquiflo's New PFA-Lined Gear Pump

- PFA-Lined Stainless Steel Housings
- SiC Shafts & Bearings
- PFA-Lined Containment Can
- Flows up to 15 GPM
- Pressures up to 100 PSI
- Temperatures to 200°F



### Typical Uses and Applications

Liquiflo's **PFA-Lined Gear Pump** is an excellent choice for inorganic acids, bases and salts, that are difficult to handle with or require expensive alloys in metallic pumps, such as: Hydrochloric Acid, Ferric Chloride, Sulfuric Acid, Hydrofluoric Acid, Sodium Hypochlorite, Nitric Acid, Sodium Hydroxide and Chromic Acid to name a few. Another key application area is for high purity services where contact with metallic components must be avoided.



**Liquiflo**  
**PFA-LINED GEAR PUMP**

**Liquiflo® External Gear Pumps**

for Metering, Transfer, Circulation & Injection Applications

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**No Wetted Metal Components**

- PFA-Lined pressure boundary components
- Self-Sintered Silicon Carbide (SiC) shafts
- PFA-Encapsulated Inner Magnet
- Wear plates of either Ceramic, Carbon, PEEK, Ryton or Teflon
- Gears of either PEEK, Ryton or Teflon
- Bearings of either SiC, Carbon, PEEK, Ryton or Teflon

**Advantages of PFA-Lined Stainless Steel Housings**

- Traditional pressure integrity expected of metal pumps
- Exempt from wicking problems associated with fiber reinforced housings
- Limits the effects of heat entrapment and corresponding thermal expansion issues
- Limits the effects of fluid absorption
- Increases strength and durability required for process pump services

**Benefits of SiC Shafts & Bearings**

- Exceptional chemical resistance
- Exceptional wear resistance

**PFA-Lined Containment Cans**

- Alloy-C containment can limits eddy current development and subsequent heat generation
- PFA-lined carbon fiber containment can eliminates eddy currents altogether

**Available in both DIN and ANSI flanged connections**

**Flows up to 15 GPM**

**Differential pressures up to 100 PSI**

**Temperatures to 200°F**

**Currently available in 7 sizes**

| Pump Model            | P1    | P2    | P3    | P4    | P5    | P6    | P7    |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|
| Gear Width (inches)   | 0.375 | 0.625 | 0.875 | 1.312 | 1.000 | 1.375 | 1.750 |
| Flow (GPM) @ 1750 RPM | 1.4   | 2.4   | 3.4   | 5.0   | 8.6   | 11.8  | 15.0  |

**MATERIALS AVAILABLE**

| HOUSINGS            | GEARS         | BEARINGS      | SHAFTS                   | WEAR PLATES    |
|---------------------|---------------|---------------|--------------------------|----------------|
| <b>SS-PFA Lined</b> | <b>PEEK</b>   | <b>SiC</b>    | <b>Self-Sintered SiC</b> | <b>CERAMIC</b> |
|                     | <b>RYTON</b>  | <b>CARBON</b> |                          | <b>CARBON</b>  |
|                     | <b>TEFLON</b> | <b>PEEK</b>   |                          | <b>PEEK</b>    |
|                     |               | <b>RYTON</b>  |                          | <b>RYTON</b>   |
|                     |               | <b>TEFLON</b> |                          | <b>TEFLON</b>  |

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**For over 35 years,**  
**Liquiflo pumps have**  
**handled thousands of**  
**difficult chemicals**