



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
SS-PFA Lined	PEEK	SiC	Self-Sintered SiC	CERAMIC
	RYTON	CARBON		CARBON
	TEFLON	PEEK		PEEK
		RYTON		RYTON
		TEFLON		TEFLON

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