



Fluoropolymer Gear Pump (FGP)

All PSI products and components are proudly designed and manufactured in the USA



Shown: FGP-28/12

Features

- 100% Inconel construction
- Compact / low profile design
- Leak-free operation to 3,000 psi (2,000 ΔP)
- All parts manufactured to ISO-9002 standards
- Process temperatures to 850° F (450° C)
- Heavy duty construction
- Precision ground gears
- Interchangeable parts with most gear pumps

PSI Fluoropolymer Gear Pumps (FGP) are ideal for processes needing to improve output and die pressure consistency when running TFE, FEP, other fluoropolymers and highly corrosive products. All components are constructed of Inconel to resist corrosion.

The FGP provides precise displacement while lowering shear stress, lowering process energy consumption, lowering melt temperature, and increasing output rates. PSI manufactures complete pump systems with controls and all interfacing equipment, which can be mounted on a custom designed support stand or supplied as individual components.

Benefits

- More accurate gauge control
- Increased output rates
- Faster start-ups
- Lower processing temperatures
- Reduced scrap
- Increased life on extruder screw & barrel
- Lower energy consumption
- Lower shear stress

Applications

- Sheet
- Coating
- Pipe and profile
- Compounding
- Wire and cable
- Lab lines
- Pelletizing (strand and underwater)
- High pressures
- Tubing
- Medical applications
- PVC and other highly corrosive materials
- Degradable materials

Technical Data

Model FGP	Extruder Output		Volumetric Displacement cc/rev	Capacity at SG = 1		Weight lbs kg
	lbs/hr	kg/hr		lbs/hr/RPM	kg/hr/RPM	
12/1.5	.2-3	.009-1.36	.11	.013	.006	7 3
12/3	.3-6	.136-2.72	.21	.027	.012	7 3
12/6	.4-8	.181-3.63	.43	.054	.024	7 3
12/12	.75-15	.340-6.80	.85	.109	.049	7 3
28/6	10-40	5-20	2.06	.272	.123	16 7
28/12	20-80	10-40	4.03	.532	.241	18 8
28/20	30-150	15-70	7.30	.964	.437	20 10
8/28	50-200	25-90	10.3	1.4	.635	25 11
38/38	100-500	45-225	34	4	2	40 20

For larger sizes and special applications contact our PSI sales office

Why Use PSI Pumps?

Elimination of surging and related defects in the extruded product, resulting in higher yield of finished product per pound

Higher output due to the reduction in the extruder head pressure

Reduction in melt temperature reduces the cooling load on downstream equipment and increases output rate

Pressure, Temperature and Output Profile With a PSI Gear Pump

