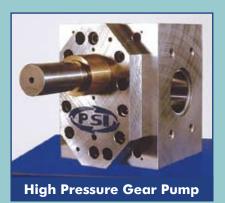
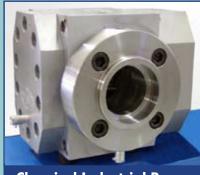


High Pressure Gear Pump (HGP) Chemical Industrial Pump (CIP)

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





Chemical Industrial Pump

Features Include

- Compact / low profile design
- Leak-free operation
- All parts manufactured to ISO-9002 standards
- Special processing of material up to 850° F
- Heavy duty construction
- Through hardened tool steel gears

The Chemical Industrial Pump is a universal, precision gear pump designed for a wide variety of processes including chemical, industrial, injection and prepolymer applications. Precision ground gears provide precise metering and constant pressure (1,000 Δ P). PSI can provide complete system assemblies including the gear pump, motor, reducer, coupling, universal drive shaft, base plate/cart, and drive controls.

The PSI High Pressure Gear Pump (HGP) is ideal for the most demanding extrusion processes. The HGP is capable of processing highly viscous, filled materials and can operate at pressures up to 10,000 psi (7,500 Δ P). The pump system is mounted between the extruder and the die head to eliminate any process variations initiating in the extruder. The HGP will accurately meter polymer and pressure to the die, providing consistent output, precise gauge control and ultimately a superior end product. PSI manufactures complete pump systems, 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

Lower processing temperatures

Lower energy consumption and shear stress

Faster start-ups

Reduced scrap

Increased life on extruder screw & barrel

Applications

- Blown film and cast film
- Sheet
- Coating
- Pipe and profile
- Pelletizing (strand and underwater)
- Compounding
- Wire and cable
- Tubing & profile
- Lab lines
- High pressures

Exclusive applications for CIP

- Solvents
- Oligomers
- Prepolymers
- Epoxy resins
- Hot-melt adhesive
- Acids

- Hardeners
- Silicones
- Oils
- Plasticizers
- Metering
- Lubrication

Technical Data For High Pressure Gear Pump

Model HGP	Pump Output (lbs/hr) (kg/hr)	Capacity at SG = 1 (pph/rpm) (kgh/rpm)	CC/REV	Ext Size (in) (mm)	Weight (lbs) (kg)						
Min 5 RPM Max 100 RPM											
28/12	2.66-53.2 1.21-24.1	.532 .241	4.03	1 25	18 8.2						
28/20	4.82-96.4 2.19-43.7	.964 .437	7.30	1 25	20 9.1						
38/23	13.3-266 6.03-121	2.66 1.21	20.6	2.5 65	30 14						
45/27	23.1-462 10.5-210	4.62 2.10	34.8	3.5 90	40 18						
60/36	45.6-912 20.7-414	9.12 4.14	69.0	4.5 114	100 45						
70/45	74.5-1,490 33.8-676	14.9 6.76	113	4.5 114	150 68						
76/50	122.5-2,450 55.6-1,111	24.5 11.1	185	6 150	185 84						
90/55	151-3,020 68.5-1,370	30.2 13.7	227	6-8 150-200	225 102						
Min 5 RPM Max 50 RPM											
110/70	300.5-3,005 136-1,363	60.1 27.3	455	8 200	390 177						
110/90	392.5-3,925 178-1,780	78.5 35.6	596	8 200	400 181						
150/75	730-7,300 331-3,311	146 66.2	1,108		1,053 478						
150/100	975-9,750 442-4,423	195 88.5	1,477		1,114 505						

For larger sizes and special applications contact our PSI sales office

Technical Data For Chemical Industrial Pump

Model CIP	Pump (lbs/hr)	•	Capacity at SG = 1 (pph/rpm) (kgh/rpm)	CC/REV	Ext Size (in) (mm)	Weight (lbs) (kg)					
Min 100 RPM Max 300 RPM											
12/1.5	.75-4	.340-1.81	.013 .006	.11	.75 20	5 2.27					
12/3	1.75-7.75	.794-3.52	.026 .012	.21	.75 20	6 2.72					
12/6	3.75-15.25	1.70-6.92	.054 .024	.43	.75 20	7 3.18					
12/12	7.5-30.5	3.40-13.8	.109 .049	.85	.75 20	7 3.18					
28/6	15-75	6.80-34.0	.272 .123	2.06	1 25	16 7.26					
28/12	35-150	15.9-68.0	.532 .241	4.03	1 25	18 8.16					
28/20	65-275	29.5-125	.964 .437	7.30	1 25	20 9.07					
28/28	95-400	43.1-181	1.36 .617	10.3	2 50	22 9.98					
38/38	280-1,125	127-510	4.42 2.0	33.8	2.5 65	40 18					
45/45	550-2,250	249-1,021	7.7 3.5	58.2	3.5 90	62 28					
60/60	1,050-4,200	476-1,905	15.2 6.9	115	4.5 114	125 57					
70/70	1,600-6,400	726-2,903	23.2 10.5	176	4.5 114	180 82					
76/76	2,500-10,350	1,134-4,695	37.3 16.9	283	6 150	195 88					
90/90	3,600-14,500	1,633-6,577	51.8 23.5	392	6-8 150-200	245 111					
110/110	6,700-26,800	3,039-12,156	96.1 43.6	727	8 200	410 186					
150/75	10,100-40,500	4,581-18,371	146 66.2	1,108		1,053 478					
150/100	13,500-54,500	6,123-24,721	195 88.5	1,477		1,114 505					
150/125	17,000-68,000	7,711-30,845	244 111	1,846		1,184 537					
150/150	20,000-81,000	9,072-36,741	293 133	2,215		1,250 567					

