

Magnetically coupled external gear pumps are proven performers for water and wastewater chemical treatment applications. They provide solutions to problems associated with other pump technologies; including pulsating flow, vapor locking and frequent and lengthy repair cycles. The smooth, constant delivery of chemicals from external gear pumps is ideal for use with flow meters and other measuring devices. With these advantages, magnetically coupled external gear pumps provide improved system performance and substantial economic savings.



The Ideal Chemical Feed Pump Solution for Demanding Applications

- Sodium Hypochlorite
- Ferric Chloride
- Sodium Bisulfite
- Polymers
- Sulfuric Acid
- Methanol
- Hydrofluorosilicic Acid
- Polyaluminum Chloride
- Aqueous Ammonia
- Caustic Soda
- Bioxide
- Sodium Hydroxide
- Hydrogen Peroxide
- Permanganate
- Oil/Water Suspension

Application Benefits

- Controlled Chemical Usage
- Simple Hydraulic System; No Dampeners or Back Pressure Valve Required
- Metering Accuracy Better than 1% with Flow Meter Feedback Control
- 20:1 Turndown Ratio Available with Drive Controls
- Pulsation Free Discharge flow
- Self Priming
- Resistant to Vapor Locking
- Simple Field Repair
- Compact Installation Footprint
- Low Maintenance Cost
- Low Initial Investment Cost
- Sealed System to Prevent Liquid Crystallization When Fluid is Exposed to Air

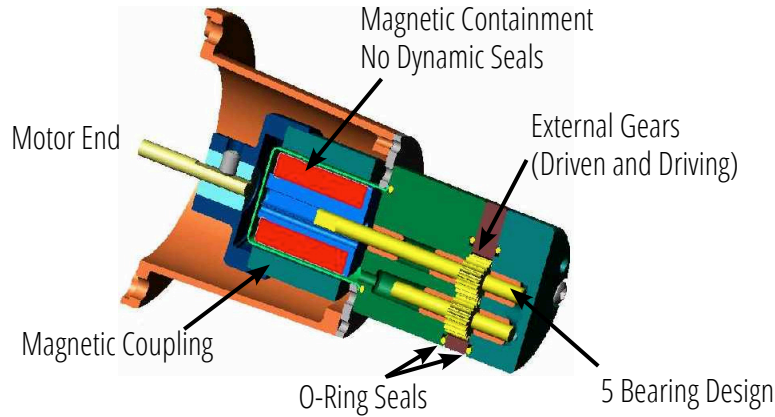
Design Features

- Magnetically Coupled Positive Displacement External Gear Pump
- 316SS, Hastelloy, Titanium, and Polyphenylenesulfide
- Flows to 10 GPM / 38 LPM
- Differential Pressures to 250 PSI / 17 BAR



The compact Tuthill design allowed easy replacement of diaphragm pumps in this 12.5% NaOCl installation.

Tuthill Pumps offer **LEAK-FREE, SEAL-LESS CONSTRUCTION**, constant delivery and versatility.



W-Series Performance Range of Flows and Pressures - 1ml/min to 10 GPM (38 LPM)

Pump Size (ml/rev) Required to Meet Flow at 3500 RPM					
Flow (GPH)	0 PSI	25 PSI	50 PSI	100 PSI	150 PSI
0.5	.11	.11	.11	.11	.19
1	.11	.11	.11	.11	.19
5	.11	.19	.19	.19	.23
10	.19	.23	.23	.38	.38
15	.38	.38	.38	.57	.57
20	.38	.57	.57	.57	.68
25	.57	.57	.57	.68	.80
30	.57	.68	.68	.80	.99
35	.68	.80	.80	.99	1.2
40	.80	.99	.99	.99	1.2
50	.99	1.2	1.2	1.3	1.6
60	1.2	1.3	1.3	1.6	1.6
80	1.6	1.6	2.0	2.0	2.3
100	2.0	2.0	2.3	2.6	2.6
150	5.3	5.3	5.3	5.3	-
200	5.3	5.3	5.3	5.3	-
250	5.3	5.3	5.3	8.0	8.0
300	8.0	8.0	8.0	8.0	8.0
400	8.0	8.0	12.	12.	-
500	12.	12.	12.	12.	-
600	12.	12.	12.	-	-

Magnet	G	X	W
In-Oz	65	240	460