

MICROPUMP®

A Unit of IDEX Corporation

Water & Wastewater Applications

David Grimes

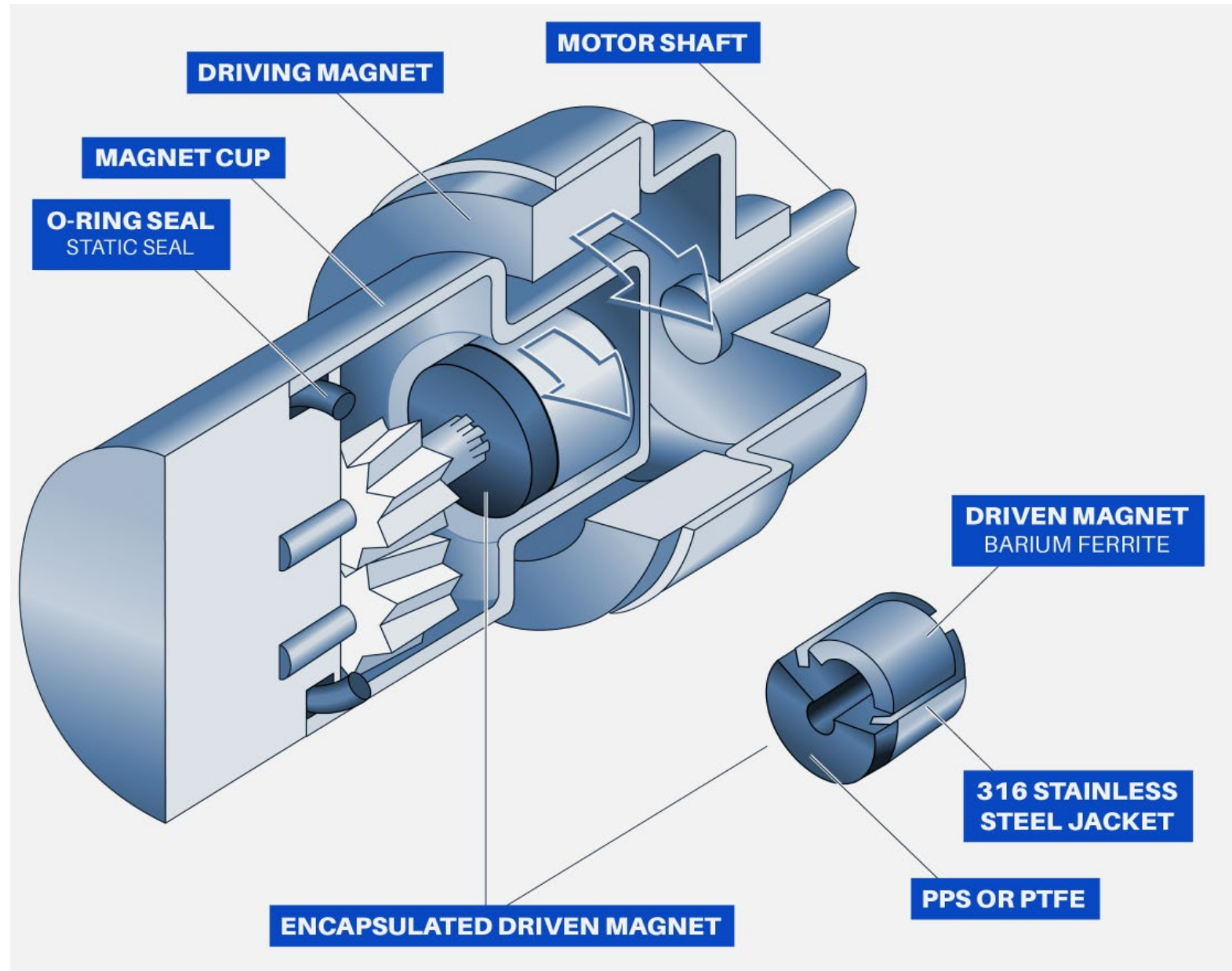
Staff Engineer

March 16, 2022

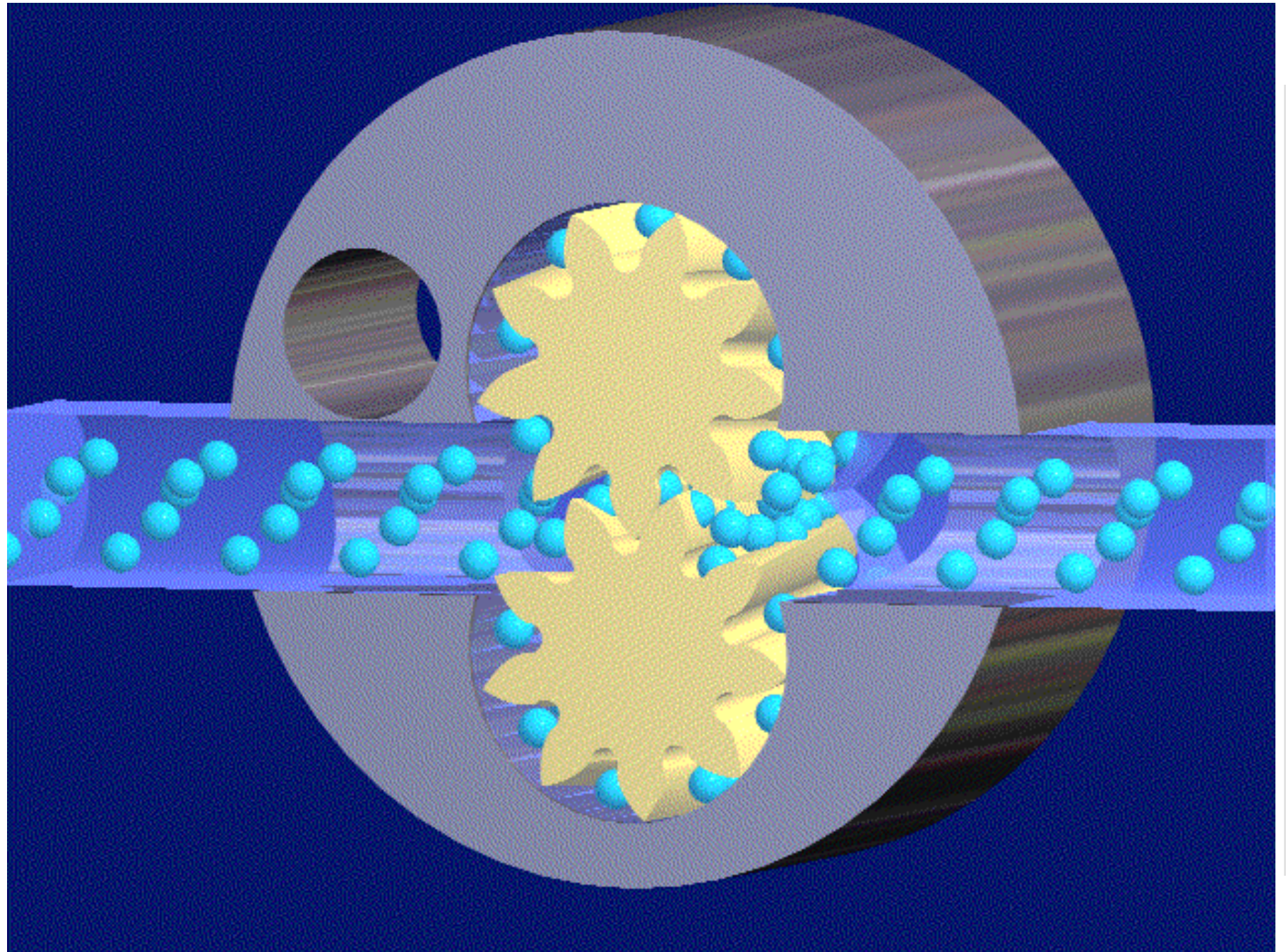
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What is Magnetically- Driven?



External Gear Pumps – Operating Principle



Why Micropump Products?

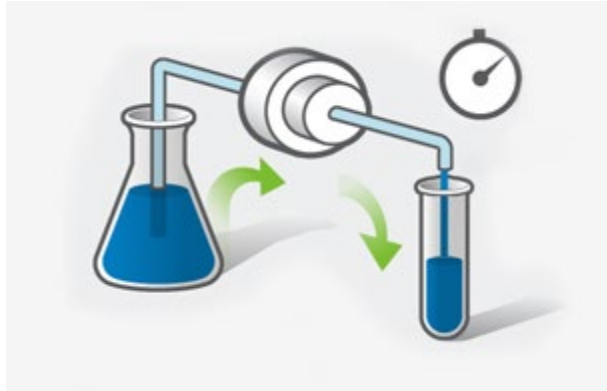
MICROPUMP PRODUCT PRECISION

Precision = Efficiency + Consistency

- Chemical resistant pump materials
- Leak free magnetically driven design
- Positive displacement
- Pulseless continuous flow

Pumping Applications

- Metering (flow over time)



- Dosing (periodic flow)



- Circulating

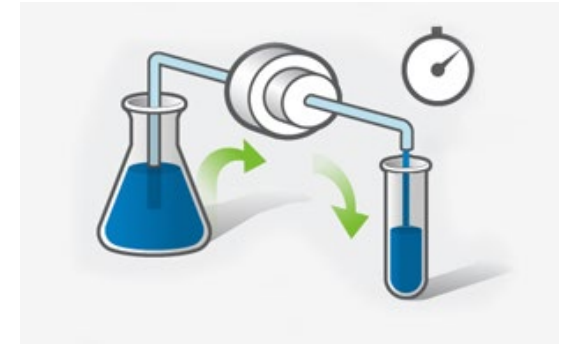


- Delivery/Transfer



Water & Wastewater Applications

- Metering/Dosing Public Water System Additives
 - sodium fluoride, hydrofluorosilicic acid, sodium silicofluoride, sodium hypochlorite, calcium hypochlorite
- Metering/Dosing Wastewater Additives
 - sulfuric acid, hydrochloric acid, sulfur dioxide, aluminum sulfate
 - other flocculent, coagulants
- Sample Circulating
 - sampling equipment (chlorine, pH, effluent)



Products for Water/ Wastewater

- Metering/Dosing Public Water System Additives
 - GA, GB, GC, GJ
- Metering/Dosing Wastewater Additives
 - GA, GB, GC, GJ
- Sample Circulating
 - GA, GJ
- FLOW RATE: 0.050 to 13.9 L/min
- DIFFERENTIAL PRESSURE:
0 to 8.6 bar

GA Series



GB Series



GJ Series



GC Series



Products for Water/ Wastewater

MICROPUMP®

GA Series Specifications

- Displacements:

0.017 ml/rev (X21) | 0.042 ml/rev (V21)

0.092 ml/rev (T23)

- Min Flow Rate: 8.5 mL/min (0.002 US gpm)
- Max Flow Rate: 506 mL/min (0.134 US gpm)
- Max Differential Pressure: 5.2 Bar (75 psi)
- Max System Pressure: 21 Bar (300 psi)
- Temp range: -46 to 177 °C (-50 to 350 °F)



Products for Water/ Wastewater

GJ Series Specifications

- Displacements:
 - 0.316 ml/rev (N21) | 0.64 ml/rev (N23)
 - 0.91 ml/rev(N25) | 1.23 ml/rev (N27)
- Min Flow Rate: 158 mL/min (0.041 US gpm)
- Max Flow Rate: 6.8 L/min (1.8 US gpm)
- Max Differential Pressure: 5.6 5 Bar (80 psi)
- Max System Pressure: 21 Bar (300 psi)
- Temp range: -46 to 121 °C (-50 to 250 °F)



Products for Water/ Wastewater

MICROPUMP®

GB Series Specifications

- Displacements:

0.26 ml/rev (P23)| 0.58 ml/rev (P25)| 1.17 ml/rev (P35)

- Min Flow Rate: 131 mL/min (0.035 US gpm)
- Max Flow Rate: 6.4 L/min (1.7 US gpm)
- Max Differential Pressure: 8.6 Bar (125 psi)
- Max System Pressure: 21 Bar (300 psi)
- Temp range: -46 to 177 °C (-50 to 351 °F)



Products for Water/ Wastewater

GC Series Specifications

- Displacements:
0.811 ml/rev (M23) | 1.82 ml/rev (M25) | 3.48 ml/rev (M35)
- Min Flow Rate: 405 mL/min (0.107 US gpm)
- Max Flow Rate: 13.9 L/min (3.7 US gpm)
- Max Differential Pressure: 8.6 Bar (125 psi)
- Max System Pressure: 103 Bar (1500 psi)
- Temp range: -46 to 177 °C (-50 to 350 °F)

