

OGME, Inc.

Oil & Gas Measurement Equipment, Inc.

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INSTRUMENT COMPANY, INC.

MANUFACTURERS OF PRECISION INSTRUMENTS



The 220 Series rotary gear pumps are ideally suited for applications requiring optimum performance at high differential pressures. The simple design offers easy field service resulting in less down time.

220 SERIES FEATURES AND BENEFITS

Flow and Pressure Ranges. The 220 Series offers flow rates from 425 ml/min to 11.75 l/min and differential pressures up to 10 bar (150 psi). The 220 Series can accommodate system pressures to 103 bar (1500 psi).*

Chemical Resistance. Polyphenylenesulfide (PPS) gears with Viton® seals are standard on 220 Series models for excellent chemical resistance, smooth, quiet operation and precise fluid delivery. An extensive number of alternate materials assures compatibility with a wide range of chemicals.

Smooth, Fluid Delivery. The 220 Series' rotary gear technology provides a smooth, accurate flow allowing process optimization.

Leak-Free Magnetic Drive. The magnetic coupling system incorporates a static seal, eliminating shaft seals and the possibility of fluid contamination. This leak-free design protects against hazardous or expensive chemical spills due to seal failure. Magnetic coupling also provides built-in overload protection.

Fluid Metering Capability. The 220 Series' positive displacement gear pumps provide precise fluid delivery for improved process control and reduced operating costs.

Available in Two Designs. The 220 Series' rotary gear pumps are available in either Suction Shoe design or Cavity Style design. Micropump's patented Suction Shoe technology provides superior sealing capabilities in high pressure applications with minimal decrease in flow (see back page). This design is

featured in both the two- and three-gear versions. Suction Shoe design also reduces the number of parts, resulting in fewer problems and simplified field servicing. Conventional gear/cavity design has been a dependable pump line since its introduction by Micropump in 1962. It offers low friction and smooth operation.

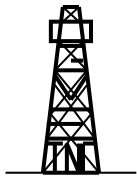
Wide Motor Capability. Micropump adapters allow any 220 Series pump to attach to a variety of drives from US Standard 56C and C-face motors to IEC/ISO 63 and 71 motors, as well as air motors and DC motors.

System Compatibility. The 220 Series is designed to fit into a wide range of system configurations.

Modifications Available. For special applications, any 220 Series model can be modified by our engineering team to meet your specific requirements.

Micropump Quality. With 35 years of fluid-handling expertise, Micropump's precision manufacturing processes result in longer product life and increased reliability.

Serviceability. Service kits, allowing field service and easy maintenance, are readily available for all 220 Series models.



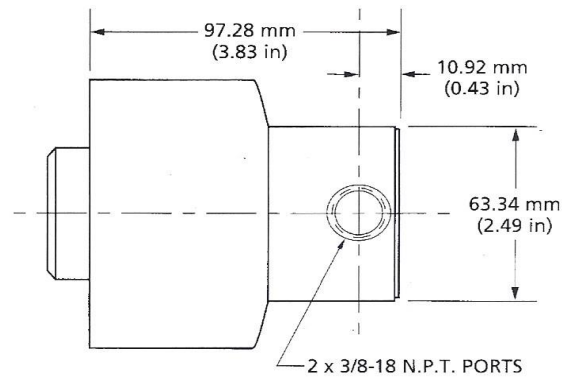
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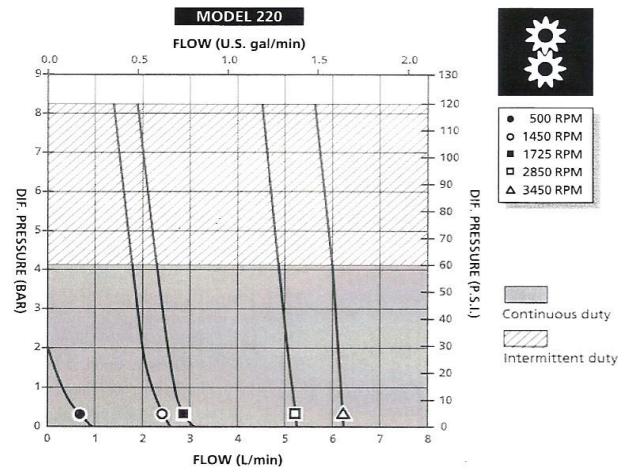
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220 SERIES MODEL 220

.750 inch wide gears, gear pitch 20, 2 gears

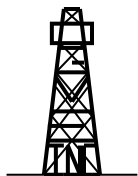


Mag-drive model	Integral Series model	gears	seal material	bypass
220	N/A	PPS	VITON	NO



SUCTION SHOE TECHNOLOGY

- Increased hydraulic efficiency at higher pressures
- Expanded pumping temperature ranges
- Simplified field servicing
- Higher flow ranges



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220 SERIES POSITIVE DISPLACEMENT MAGNETIC DRIVE GEAR PUMP

WETTED MATERIALS

Wetted materials vary by pumphead.

PUMP HOUSING 316 AISI Stainless Steel
GEARS/BUSHINGS PPS (Polyphenylenesulfide)
SHAFTS 316 AISI Stainless Steel
SEALS Neoprene, Viton® or Ethylene Propylene
DRIVEN MAGNET Totally encapsulated in 316 AISI Stainless Steel and PPS

PUMP PERFORMANCE

FLOW RATE (Dependent upon model) 425 ml/min to 11.75 L/min
MAX. SYSTEM PRESSURE* 103 bar (1500 p.s.i.)*
MAX. DIFFERENTIAL PRESSURE . . (Dependent upon model) 10.3 bar (150 p.s.i.)
(Not recommended where inlet pressures may exceed outlet pressures)
SUCTION CAPABILITIES Consult Distributor
TEMPERATURE RANGE -46 to 122°C (-50 to 250°F)
FLUID VISCOSITY RANGE Up to 1000 Centipoise. Higher viscosity fluids can be pumped. Consult Distributor for additional information
SELF-PRIMING Dependent upon fluid and operating conditions
PORT SIZE 3/8" NPT
WEIGHT 1.63Kg (3.60lbs)

MOTOR REQUIREMENTS

Motor requirements vary by pumphead and duty.

MOTOR TYPE AC, DC and air motor
Consult your Distributor and Micropump Motor Data Sheet
SPEED To 6,000 RPM
MOTOR ROTATION Clockwise when looking at shaft end
MINIMUM POWER REQUIREMENT 1/4 Hp
MOUNTING ADAPTERS 56C, IEC/ISO 63-71, Consult Distributor

PRODUCT ALTERNATIVES

Micropump has developed many custom alternatives of the pumps shown, in a variety of alternative materials. Some of those options are shown below. Please contact a Micropump Distributor to discuss your application requirements.

PUMP HOUSING** Alloy B & C, Alloy 20, Titanium, INCONEL®
GEARS/BUSHINGS PEEK, Liquid Crystal Polymer, other metallurgy, engineered plastics and ceramics are available
SHAFT Alloy B & C, Alloy 20, Titanium, INCONEL
SEALS, O-RINGS Ethylene Propylene, Buna-N, Kalrez® Silicone, Viton®
DRIVEN MAGNET Rare Earth magnets totally encapsulated in Alloy B & C, Alloy 20, Titanium, INCONEL and PTFE or PPS
PORTING OPTIONS Side and face port options available

*Attainable only when modified with high-pressure magnet cup. Standard version capable of system pressures to 70 bar (1000 p.s.i.).

**Includes Shafts, Pump Body and Magnet Cup

