## MICROPUMP.

## GEAR PUMPS - CAVITY VS SUCTION SHOE STYLE SELECTION GUIDE

PUMP ATTRIBUTE	CAVITY GD, GJ, GJR, GL, GM, GN	SUCTION SHOE GA, GAF, GB, GC	REMARKS
► Flow vs Differential Pressure		<b>✓</b>	<ul> <li>Pressure Loading in the Suction Shoe         Pump creates the ability to maintain more             consistent flow at high differential pressures.     </li> <li>SUCTION SHOE OFFERS BEST IN CLASS         PERFORMANCE     </li> </ul>
➤ Temperature Performance			<ul> <li>Suction Shoes provide thermal expansion space for gears and shoes, thus increasing temperature operational range. Gears/shoes of similar materials perform optimally over a large temperature range.</li> <li>SUCTION SHOE OFFERS BEST IN CLASS PERFORMANCE</li> </ul>
► Flow Rate	<b>✓</b>	<b>✓</b>	<ul> <li>Both pump styles are positive displacement pumps and generate similar flow rates for a given gear size and geometry.</li> </ul>
► Chemical Compatibility	<b>✓</b>		<ul> <li>Both pump styles are manufactured with materials that are chemically compatible with a wide range of fluids.</li> </ul>
► Reversibility	<b>✓</b>		The Suction Shoe is not well suited for bi-directional flow.
▶ Dry Lift	<b>✓</b>		The Suction Shoe does not dry lift well due to lack of pressure loading.
▶ Wet Lift	<b>✓</b>	<b>✓</b>	Both pump styles can generate lift in a primed system.
➤ Torque Required	<b>✓</b>		► The high hydraulic efficiency of the Suction Shoe does require a small amount of additional torque over the Cavity style.