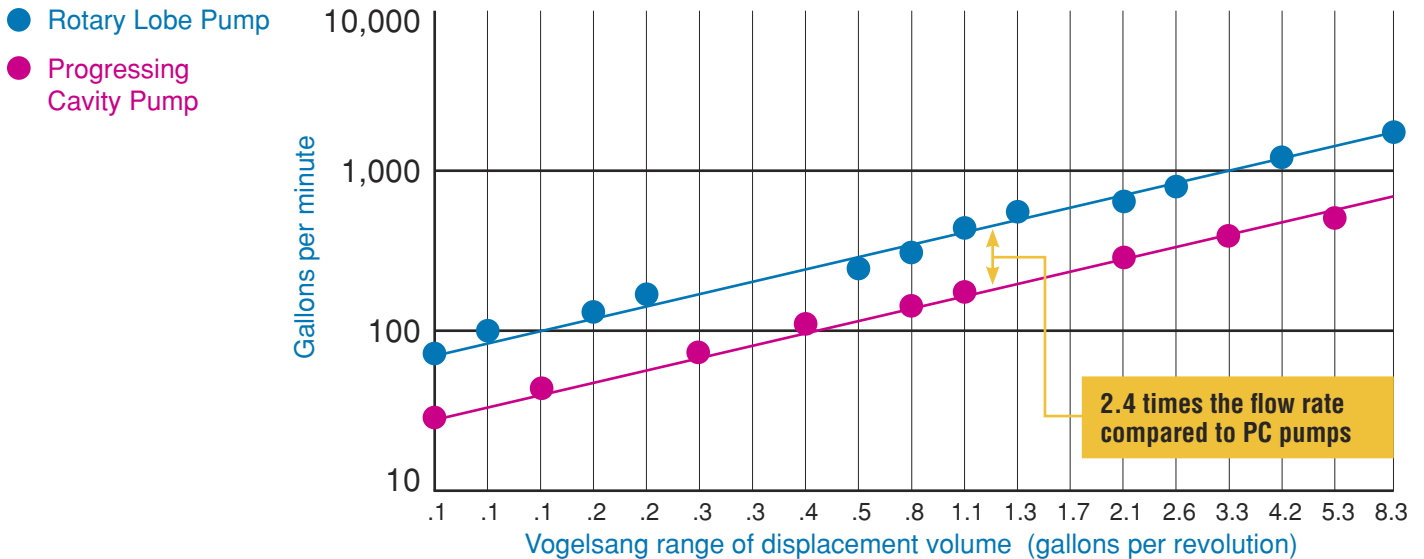




Flow Rate at equal displacement volume



Tech Tip

Advantages of Vogelsang Rotary Lobe Pumps

Like progressing cavity pumps, rotary lobe pumps belong to the pump type known as positive displacement pumps. Due to its compact design, a rotary lobe pump can be advantageously used even for high discharge rates. In the following the special benefits of rotary pumps are described in comparison to progressing cavity pumps.

High Capacities

In terms of capacity, the difference becomes much more significant between a progressing cavity pump and a Vogelsang Rotary Lobe Pump. The flow rate of rotary lobe pump can be increased up to 2.4 times over the PC pump when coupled to a variable speed drive. This is due to the fact that rotary lobe pumps don't face the same speed limitations as the PC design.

Vogelsang HiFlo® Sludge Pump



Both, rotary lobe pumps and PC pumps are used for pumping abrasive slurries. To assure maximum efficiency, both pump types rely on the least possible amount of clearance between the rotating displacement elements and the surrounding housing. To minimize wear, both pumps apply the principle of "soft against hard", where the pressurizing element of the pump is coated with a wear resistant elastomer. In progressing cavity pumps, the stator is made of the "soft" material and in a rotary lobe pump, the lobes are covered in your choice of elastomer.

The advantage of the rotary lobe pump, is its two bearings per shaft, the rotary lobe pump is always operating with clearances between housing and lobes, whereas the PC pumps works with close contact between metal rotor and rubber stator. This means the spiral shaped rotor is always pinched inside the undersized stator. On one hand zero clearances result in low internal backflow but on the other hand the continuous friction in the PC pump design creates high starting and running torque and inability to run dry without damage. Rotary lobe pumps on the other hand, can run dry indefinitely, without damage.

For more information, visit our website at www.vogelsangusa.com, to locate a local distributor, or contact Vogelsang direct at 800-984-9400.

Sludge Pumping, Macerating & Distributing Products

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