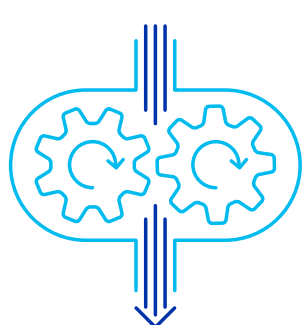


How does true positive displacement technology compare to gear pumps for plural-component mixing in an industrial finishing context?

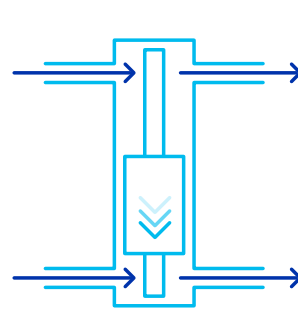


POSITIVE DISPLACEMENT VS GEAR PUMPS: A COMPARISON

Although gear pumps have dominated the plural-component industrial paint mixing market for decades, alternative technologies are quickly gaining ground. Innovative systems based on **dosing cylinder pumps** guarantee 100% positive displacement, leading to **incomparable mixing ratios** – within 1% accuracy – and **preventing high maintenance costs**.



GEAR PUMPS



POSITIVE DISPLACEMENT PROPORTIONERS



Flow range



Flow range limited to **80-450 cc/min.**

Flow range between **20 and 800 cc/min.**

Accuracy



Operate within **5% accuracy** (industry standard).

Unmatched mixing ratio **accuracy within 1%.**

Pressure



Suitable for pressure up to **300 psi.**

Manage high pressure up to **1,500 psi.**

Reaction time



Slow reaction time, as pressure needs to build up.

Stall under pressure, **always ready to go!**

Maintenance



Complex and expensive maintenance, up to €10,000 for a pump rebuild.

Easy and inexpensive maintenance in the field.

Viscosity



Limited viscosity range because of slippage and packing.

Can handle a **wide viscosity range** (20 to 5,000 centipoise).



Are you curious to learn more about positive displacement systems? Click on the links below to discover the perks of this next-generation technology and to explore Graco's ProMix positive displacement proportioning systems.

[How does positive displacement work?](#)

[Discover our ProMix PD product range](#)