

# Masterflex® MasterSense™ Gear & Piston Process Pumps

Your process, evolved: MasterSense™ upgrade delivers an advanced user experience that saves time and ensures process reliability.

The next evolution of our MasterSense™ Gear & Piston Process Pumps offers advanced digital features in a rugged, stainless-steel housing. New, integrated sensor technology monitors system pressure during pumping operations, while an intuitive touchscreen provides greater operational control. The upgrades also support expanded flow ranges, pressures and torque capabilities to easily handle more viscous fluids and a broad range of chemicals. Leverage the enhanced digital interface and consistent reliable performance to secure every drop.



### SUPERIOR MECHANICAL DESIGN

Our next-generation pumps are low-maintenance for continuous operations and their higher flow ranges, pressures and torque capability assure consistent reliability.

**Gear pumps** offer pulseless flow, long term repeatability, and low maintenance.

**Piston pumps** offer high accuracy dispensing repeatability and excel at high pressure applications. Now housed in IP66-rated stainless steel, both pumps are washdown capable and can be cleaned with many commonly used cleaning and sanitizing agents.

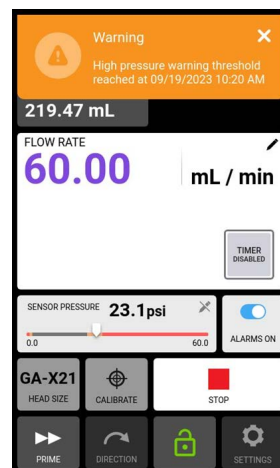
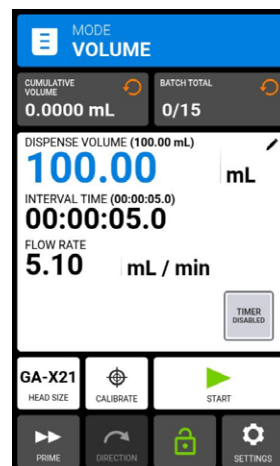
### SET IT AND FORGET IT TECHNOLOGY

The MasterSense Gear & Piston Process Pumps accommodate integrated sensors that alert the user of pressure build-up before a potential process failure. These pumps can also store and recall up to 50 standard protocols, ensuring continuity and allowing more time for core work.

### INTUITIVE USER INTERFACE

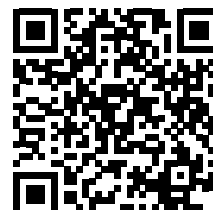
A new digital touchscreen removes the hassles of the analog keypad and optimizes menu navigation and program input, even with wet gloves on. MasterSense onboard connectivity options allow for seamless communication to PLCs or Distributed Control Systems through EtherNet/IP™, PROFIBUS, analog or serial commands.

Three-level user access provides more secure control — ensuring the right person has access to specific features and functionality. All of these features are geared to improve process reliability and scalability.



Pump Technology	Type	Flow Range	Max Differential Pressure	Model Number
Gear Pump	Drive only	1.7 to 7380 ml/min	8.6 bar (125 psi)	<b>MFLX07576-50</b>
		9.2 to 552 ml/min	4 bar (60 psi)	<b>MFLX77976-50</b>
	Pump System	64 to 3840 ml/min	6.9 bar (100 psi)	<b>MFLX77976-51</b>
		117 to 7000 ml/min	1.7 bar (25 psi)	<b>MFLX77976-52</b>
Piston Pump	Drive only	1.7 to 2300 ml/min	6.9 bar (100 psi)	<b>MFLX07576-60</b>
		9.6 to 576 ml/min	2.8 bar (40 psi)	<b>MFLX77976-60</b>
	Pump System	21 to 1290 ml/min	5.2 Bar (75 psi)	<b>MFLX77976-61</b>
		38 to 2300 ml/min	4 bar (60 psi)	<b>MFLX77976-62</b>

Scan & Explore



For more information about Avantor's fluid handling solutions, including the Masterflex MasterSense Gear & Piston Process pumps, visit [www.vwr.com](http://www.vwr.com) or contact your Avantor sales representative.