Complete pumping systems for easier ordering and installation!

- Flow rates from 0.01 to 17.0 LPM with a single pumping channel
- Modular designs offer flexible placement of system components—use wall-mount controllers for wet or hostile environments
- Options include IP-rated systems, air-powered drives for hazardous environments, and washdown models
- Choose from systems designed both for reliable high-flow transfer pumping and for precision dispensing
- Include pump head, tubing, and drive
Masterflex I/P Modular Pumps

Applications
- Polishing/lapping
- Chemical recirculation
- Sterile fluid transfer
- Pump detergent from shipping drums
- Filtration
- pH control
- Food flavoring injection
- Dispensing cell culture media
- Ink or dye dispensing
- Plating
- Corrosive fluid transfer
- Slurry pumping

Benefits
- Modular design allows separation of components by up to 1.8 meters (6 feet); drive speed may be controlled remotely by 4 to 20 mA signal
- Easy tubing changes
- Purge tubing before or after pumping
- Forward/off/reverse switch lets you reverse while maintaining speed setting
- Choose wall-mount controller units for wet or hostile environments

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>Flow range (LPM)</th>
<th>Pump head included</th>
<th>Tubing included</th>
<th>Tubing sizes accepted</th>
<th>Drive included</th>
<th>Drive speed range (rpm)</th>
<th>Drive IP rating</th>
<th>Power (50/60 Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK-77962-00</td>
<td>0.2 to 8.0</td>
<td>I/P Easy-Load&lt;sup&gt;®&lt;/sup&gt; 77601-10</td>
<td>Tygon&lt;sup&gt;®&lt;/sup&gt; LFL I/P 73 06429-73, 3 m (10 ft)</td>
<td>I/P 26, I/P 73, I/P 82</td>
<td>07951-00</td>
<td>20 to 650</td>
<td>Controller: IP22 Motor: IP34</td>
<td>90 to 130 VAC, 3.0 A</td>
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<tr>
<td>MK-77962-07</td>
<td>0.2 to 8.0</td>
<td>I/P Easy-Load&lt;sup&gt;®&lt;/sup&gt; 77601-10</td>
<td>Tygon&lt;sup&gt;®&lt;/sup&gt; LFL I/P 73 06429-73, 3 m (10 ft)</td>
<td>I/P 26, I/P 73, I/P 82</td>
<td>07951-07</td>
<td>20 to 650</td>
<td>Controller: IP22 Motor: IP34</td>
<td>180 to 280 VAC, 1.5 A</td>
</tr>
</tbody>
</table>

Masterflex I/P Process Pumps

Applications
- Media transfer
- Filling/emptying large carboys
- Pumping dyes and pigments
- Pumping fermentation chemicals
- Sludge sampling
- Purification/filtration/media transfer
- Chemical feed and metering
- Wastewater processing
- Pumping antifoaming agents

Benefits
- Maintenance-free motor for continuous-duty applications
- Light enough to carry with one hand
- Displays percent speed from 5 to 100% for repeatable control
- Sealed, IP55-rated housing sprays or wipes down for easy cleaning
- Powerful enough to drive two pump heads for twice the flow rate
- Remote control capability via fluid-resistant I/O connector on back of drive (77965-00 and 77965-10; requires 77300-32 remote cable kit)
- Analog outputs include “pump ready” signal

<table>
<thead>
<tr>
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<th>Flow range (LPM)</th>
<th>Pump head included</th>
<th>Tubing included</th>
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<th>Drive included</th>
<th>Drive speed range (rpm)</th>
<th>Drive IP rating</th>
<th>Power (50/60 Hz)</th>
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</thead>
<tbody>
<tr>
<td>MK-77963-10</td>
<td>0.4 to 8.0</td>
<td>I/P Easy-Load 77601-10</td>
<td>Tygon&lt;sup&gt;®&lt;/sup&gt; LFL I/P 73 06429-73, 3 m (10 ft)</td>
<td>I/P 26, I/P 73, I/P 82</td>
<td>77410-10</td>
<td>33 to 650</td>
<td>IP55</td>
<td>90 to 130 VAC, 4.5 A; 180 to 280 VAC, 2.6 A</td>
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<tr>
<td>MK-77963-20</td>
<td>0.7 to 17.0</td>
<td>I/P High-Performance 77600-62</td>
<td>Tygon&lt;sup&gt;®&lt;/sup&gt; LFL I/P 88 06429-88, 1 m (3 ft)</td>
<td>I/P 70, I/P 88, I/P 89</td>
<td>77411-00</td>
<td>33 to 650</td>
<td>IP55</td>
<td>90 to 130 VAC, 4.5 A; 180 to 280 VAC, 2.6 A</td>
</tr>
</tbody>
</table>

MK-07595-43 Washdown foot switch for 77965-00, -10
MK-77300-32 Remote cable kit for 77965-00, -10
MASTERFLEX I/P DIGITAL MODULAR PUMPS

Applications
■ Yogurt dispensing ■ Flavor concentrate/food additive dispenser ■ Photochemical dispenser ■ Shampoo dispenser ■ Transfer of cell culture media

Benefits
■ Modular format lets you separate drive and controller up to 7.6 meters (25 feet)
■ Easy to integrate into a system (order connector 07595-52 below)
■ Repeat dispensing
■ Reverse pumping
■ Start/stop foot switch or handheld remote control operation
■ Unit with wall-mount controller offers analog remote of speed/start/stop and direction (requires 77300-32; order below)

MASTERFLEX I/P DIGITAL PROCESS PUMPS

Applications
■ Pharma and cosmetics transfer ■ Sanitary food/dairy process pump ■ Automated process pump ■ Dosing/metering additives ■ Pilot-scale fermentation ■ Bulk media transfer and dispensing ■ Large-volume buffer transfer

Benefits
■ Motor is virtually maintenance free
■ Full-featured digital dispense with programmed calibration for accuracy
■ Four-digit display shows rpm, flow rate, dispense volume, and copy number
■ Programmable dispense interval for automated dispensing
■ Analog remote control of speed, start/stop, and direction (remote accessories required)
■ Sealed, stainless steel housing is IP66, NEMA 4X rated for easy washdown in sanitary process environments
■ Tach output for precise speed control and feedback

ADDITIONAL MASTERFLEX I/P PUMP SYSTEMS
Masterflex I/P pump systems are also available with air-powered pumps and for hazardous-duty uses. Options include ATEX-approved/compliant systems.
Contact us for more information.
### Masterflex I/P Precision and High-Performance Precision Pump Tubing

Masterflex I/P pump tubing is manufactured to tight tolerances to ensure repeatable performance, higher accuracy, and longer tubing life. Our tubing is visually inspected and factory tested to obtain the best performance from your Masterflex I/P pump system.

<table>
<thead>
<tr>
<th>Pump tubing formulation</th>
<th>Precision pump tubing</th>
<th>High-performance precision pump tubing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I/P 26</td>
<td>I/P 73</td>
</tr>
<tr>
<td>Silicone (platinum cured)</td>
<td>MK-96410-26</td>
<td>MK-96410-73</td>
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<tr>
<td>Silicone (peroxide cured)</td>
<td>MK-96400-26</td>
<td>MK-96400-73</td>
</tr>
<tr>
<td>BioPharm silicone (platinum)</td>
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<td>MK-96420-73</td>
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<tr>
<td>PharmaPure**</td>
<td>MK-06435-26</td>
<td>MK-06435-73</td>
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<tr>
<td>STA-PURE® PCS</td>
<td>MK-96200-26</td>
<td>MK-96200-73</td>
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<tr>
<td>STA-PURE® PFL</td>
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<td>Tygon® Food (E-44-4X)</td>
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<td>Tygon® lab (R-3603)</td>
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<td>Norprene® A 60 G</td>
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<tr>
<td>Norprene® Food (A 60 F)</td>
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<tr>
<td>FDA Viton®</td>
<td>MK-06412-26</td>
<td>MK-06412-73</td>
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</tbody>
</table>

††Recommended for use with Easy-Load® pump head only.