Masterflex® L/S®
Digital Drives

Graphical interface and a maintenance-free high-accuracy motor

- Wider speed range delivers flows from 0.001 to 3400 mL/min with L/S pump tubing
- Graphical LCD shows all operating parameters—ideal for critical process monitoring
- Brushless, maintenance-free motor offers ±0.1% speed control accuracy with a 6000 to 1 turndown
- Menu-driven interface lets you select one of seven languages for programming and operation
- Dispense by volume or time with a programmable delay interval between cycles
- Cumulative volume function tracks total volume pumped or dispensed
- Scaleable remote control of speed, direction, and start/stop enable process automation and integration
- Models available with open-head sensor capability—instantly shuts down drive motor when pump head is opened

Applications
- Dispensing and filling
- Fluid metering, feed, and transfer
- Acid/base pH control
- Precision additive, flavoring, and colorant delivery
- Sterile filtration and fluid transfer
- Automated fluid transfer
- Food/beverage and dairy process
These L/S® precision drives offer high-accuracy motors and a graphical interface that makes setup and operation easier than ever. The high-contrast LCD shows four operating modes: continuous run, timed dispense, copy dispense, and volume dispense allowing you to view pump performance continually.

A programmable dispense interval allows hands-free dispensing and filling, and a cumulative volume feature totalizes volume dispensed over multiple cycles. Programmed calibration ensures dispense and display accuracy—drive stores one calibration value per tubing size.

Computer-compatible models operate as stand-alone drives or they can be interfaced with a PC.

Process drives features a NEMA 4X / IP66-rated housing; choose 316 stainless steel housing for sanitary and washdown applications or powder-coat steel for process, water treatment, and manufacturing applications where stainless steel is not a critical requirement.

L/S variable-speed digital drives are ideal for repetitive filling and dispensing applications. Stack pump heads to reduce pulsation and increase flow rates.

Flow Rates in mL/min with Masterflex® L/S® Pump Heads*

<table>
<thead>
<tr>
<th>rpm</th>
<th>L/S 13</th>
<th>L/S 14</th>
<th>L/S 16</th>
<th>L/S 18</th>
<th>L/S 15</th>
<th>L/S 24</th>
<th>L/S 35</th>
<th>L/S 36</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 to 600</td>
<td>0.006 to 36</td>
<td>0.021 to 130</td>
<td>0.08 to 480</td>
<td>0.17 to 1000</td>
<td>0.28 to 1700</td>
<td>0.38 to 2300</td>
<td>0.17 to 1000 (0.18 to 1100)</td>
<td>0.28 to 1700 (0.30 to 1800)</td>
</tr>
<tr>
<td>0.02 to 100</td>
<td>0.001 to 6</td>
<td>0.004 to 21</td>
<td>0.016 to 80</td>
<td>0.033 to 170</td>
<td>0.057 to 280</td>
<td>0.077 to 380</td>
<td>0.033 to 170 (0.036 to 183)</td>
<td>0.057 to 280 (0.057 to 300)</td>
</tr>
</tbody>
</table>

*Flow rates in parentheses are for the L/S High-Performance pump head.

Complete Pump Systems

Additional complete pump systems based on the drives listed above can be found at Masterflex.com

<table>
<thead>
<tr>
<th>System</th>
<th>Flow range (mL/min)</th>
<th>What's included</th>
<th>Catalog number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.28 to 1700</td>
<td>L/S Easy-Load® II pump head 77200-62</td>
<td>C-Flex ULTRA® L/S 24 tubing 06434-24 (10 ft)</td>
<td>Digital drive 07522-20 0.1 to 600 rpm</td>
</tr>
<tr>
<td>0.06 to 480</td>
<td>L/S Easy-Load II pump head with Open-Head Sensor 77200-30</td>
<td>C-Flex ULTRA L/S 16 tubing 06434-16 (10 ft)</td>
<td>Digital drive 07522-28 0.1 to 600 rpm</td>
</tr>
<tr>
<td>0.28 to 1700</td>
<td>L/S Easy-Load II pump head with Open-Head Sensor 77200-32</td>
<td>C-Flex ULTRA L/S 24 tubing 06434-24 (10 ft)</td>
<td>Digital drive 07522-28 0.1 to 600 rpm</td>
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