The new DULCO flex Control (DFXa) is an intelligent peristaltic metering pump that is valve-free and has the accuracy of a diaphragm pump. Applications include gaseous, highly viscous, abrasive, shear-sensitive and chemically aggressive fluids.

The liquid end of the pump is designed for a quick and simple replacement of the tubing, utilizing a unique exchange process. The pump display provides precise instructions on the steps required for the tube replacement. High-performance tubing consists of a TPV (Santoprene) or PUR (Polyurethane) material that provides excellent chemical resistance and a long service life.

The DULCO flex Control (DFXa) is powered by a DC motor and will provide continuous metering from 0.038 GPD (6 ml/h) to 17.7 GPH (65 l/h). Additional features such as communication protocol includes PROFIBUS, CANbus, Modbus and PROFINET.

Features & Benefits

- Volume adjustment in GPH or LPH
- Manual, Analog, Contact and Batch modes optional
- High visibility of LED-indicator lights
- Large illuminated display
- New configurable input/output port
- Pump is available as an FDA design
- CIP (cleaning in place) enabled system
- Turn down ratio up to 3,000:1
- Reverse flow is possible
- Dosing head can be aligned in four directions: Left, Right, Up and Down
- Integrated 7-day timer
- Viscosities to 10,000 cPs
Technical data

### Capacity Data

<table>
<thead>
<tr>
<th>Pump Version</th>
<th>Capacity at Maximum Backpressure</th>
<th>Max. speed</th>
<th>Connector size</th>
<th>Suction Lift</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PSIG (bar) GPH (l/h) rpm in ft (m) lbs (kg)</td>
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<tr>
<td>DULCO flex Control (DFXa)</td>
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<tr>
<td>0518</td>
<td>73 (5) 4.75 (18) 100 1/2&quot; x 3/8&quot; 16.4 (5) 12.8 (5.8)</td>
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<tr>
<td>0530</td>
<td>73 (5) 8.00 (30) 100 1/2&quot; x 3/8&quot; 16.4 (5) 12.8 (5.8)</td>
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<tr>
<td>0730</td>
<td>100 (7) 8.00 (30) 100 1/2&quot; x 3/8&quot; 16.4 (5) 12.8 (5.8)</td>
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<tr>
<td>0565</td>
<td>73 (5) 17.17 (65) 100 1/2&quot; x 3/8&quot; 16.4 (5) 12.8 (5.8)</td>
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</tbody>
</table>

**Tube material:**
- TPV (Santoprene): available with pump versions 0730 and 0530
- PUR (Polyurethane): available with pump version 0518, 0530 and 0565 only

**Tube connectors:** PVDF/PTFE

**Metering reproducibility:** ±2% with retracted tube (after approx. 200 revolutions)

**Turndown:** 3,000:1

**Electrical connection:** 100 - 230 V ±10%, 50/60 Hz

**Nominal power:** approx. 45 W

**Degree of protection:** IP 66, NEMA 4X Indoor

**Permissible ambient temperature:** 14 - 113 °F (-10 - 45 ºC)

**Optional relay modules:** 1 x switch over contact, 230 V – 8 A or 2 x On, 24 V – 100 mA

*Capacity data represents minimum values, tested using water at 68 °F (room temperature)*

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### Dimensional Drawing

*Note: All above measurements are in inches*