





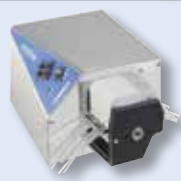


Ismatec® Pump Selection Guide (arranged by max flow)

Family	Photo	Channels	Flow range (mL/min)	Description	Tubing type
Fixed-speed rack-mount		2 or 4	0.014 to 22	<ul style="list-style-type: none"> ✓ Rack mounted, fixed speed pumps ✓ Use these pumps almost anywhere ✓ Easy tubing changes even while pump is running 	3-stop
Reglo ICC		2, 3, or 4	0.0001 to 43	<ul style="list-style-type: none"> ✓ Independent channel control (ICC)—each channel is completely independent ✓ Computer control 	3-stop
IPC and IP		4, 8, 12, 16, or 24	0.0004 to 44	<ul style="list-style-type: none"> ✓ High-precision multichannel dispensing and delivery pumps for analytical applications ✓ Planetary drive system ✓ RS-232 or analog interface 	2-stop
Reglo Analog and Reglo Digital		2 or 4	0.003 to 59	<ul style="list-style-type: none"> ✓ Compact cassette dispensing pumps ✓ Some models with calibrating functions ✓ RS-232 or analog interface 	3-stop
Reglo Quick™		1	2.1 to 230	<ul style="list-style-type: none"> ✓ Compact cassette dispensing pumps ✓ Simple tubing changeout ✓ Analog interface only 	Pump
Quick-coupled BVP/MCP drives and Quick-coupled BVP/MCP pump heads		1, 2, 3, 4, 8, 12, 16, or 24	0.003 to 3600	<ul style="list-style-type: none"> ✓ Variety of pump heads and drives offer a wide range of pumping solutions ✓ Pump heads are easy to install, drives come in both basic and programmable versions ✓ RS-232 and/or analog interface ✓ IP65-rated; dust-tight and waterproof 	2-stop, 3-stop, pump, and Masterflex
ecoline		1 to 8	0.0075 to 5400	<ul style="list-style-type: none"> ✓ Economical and powerful ✓ Stackable stainless steel housing ✓ Simple set up and operation ✓ Models with analog interface 	3-stop, pump, and Masterflex
Flowmaster®		1	35 to 13,000	<ul style="list-style-type: none"> ✓ Powerful pump for heavy-duty processes ✓ Stainless steel housing, IP65 rated; dust-tight and waterproof ✓ Analog interface 	Pump
Heads for other drives					
Pump heads for Masterflex® drives		2 to 8	0.002 to 32.5	<ul style="list-style-type: none"> ✓ Accuracy of Ismatec pump heads combined with the versatility of Masterflex pump drives 	3-stop

Key Factors to Consider when Selecting an Ismatec® Pump

Flow Range

Flow range depends on drive speed, number of rollers on the pump head, and the size of tubing. For a higher flow range, choose a pump head with fewer rollers. To reduce fluid pulsation, select a pump head with more rollers.

Number of Channels

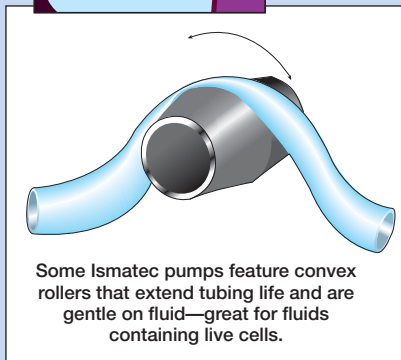
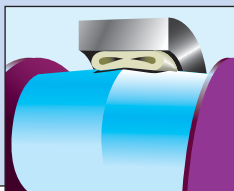
Number of channels refers to the number of pieces of tubing that can be used simultaneously. For example, a four-channel pump head can accommodate four pieces of tubing or four cartridges. Load the four channels with different types and/or sizes of tubing, then pump a variety of fluids or the same fluid at different flow rates.

Speed

Fixed-speed pumps and drives are simple and easy to use, and they accept a wide variety of tubing sizes to deliver various flow rates. Variable-speed pumps and drives accept analog input for remote on/off, speed, and directional control. They are available with numerical or digital display. Digital and analog models provide an analog output to let you monitor flow rate. Digital models feature an RS-232 interface.

Pressure Level Cassettes

These cassettes feature a pressure lever that allows you to set a different tubing pressure for each channel. Depending on the application, tubing material, and diameter, you can adjust to optimal tubing pressure for your requirements.



Some Ismatec pumps feature convex rollers that extend tubing life and are gentle on fluid—great for fluids containing live cells.

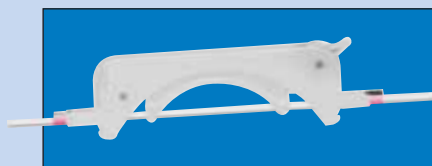
Programmable Dispensing Pumps

Programmable dispensing pumps are ideal for continuous pumping or for dispensing in any of five modes, including:

- Flowrate: set to your application's required dispense rate
- Volume: dispense any volume within the pump's range
- Time: 0.1 second to 999.9 hours
- Batches: sets delay between dispensed volumes
- Drip-free: back steps pump to prevent drips

The “Programmable” icon throughout this section gives you a quick reference to programmable drives

Programmable



Planetary Drive System

With the planetary drive system, each roller is directly driven by the sun wheel. This mechanism prevents axial push-pull friction on the tubing—resulting in longer tubing life, lower pulsation, and high repeatability.

