

# Standard Pumps Selecting A Pump Module

## Standard Pumps without Electronics

The standard pumps without electronics (BP & BPV) are best for those instrument manufacturers who have access to stepper-motor drivers or are planning to develop one.

It is not uncommon for BP and BPV users to have designed and manufactured their own pump but find the BP or BPV much more economical and reliable than their own in-house designs. Cost reduction is the most cited reason for using the BP or BPV.

Often, there are other stepper motors being utilized within an instrument. Using their drivers to control the BP or BPV for simple tasks is not difficult.

## Standard Pumps with Electronics

Users of the standard pumps with electronics (AP & APV) typically want ease of use and minimized design time. When used with Logic PCBA, the AP and APV provide ready-to-use interfaces that eliminate the need to develop the complex drivers and communication protocols.

## Standard Pumps with or without Valves

The standard pump with valve (BPV) and standard pump with valve and electronics (APV) include a three-way valve and motor to turn the valve. This configuration eliminates the need for external valves for priming and simple dispensing/diluting applications. Be sure to select syringes designed for use with valves.

The standard pump without electronics (BP) and the standard pump with electronics (AP) can be used in conjunction with the valved pumps (BPV & APV) for a two-pump diluter, and can stand alone when used with an external, user supplied valve. Both dual-port and single-port syringes can be used on pumps without valves.

If none of the above described configurations meet your pump needs, contact TriContinent to find out about our modified or custom pumps that can be designed to fit your application.