

Enabling the *No Check Valve* Feature for the 500xv Syringe Pump

Overview

All Teledyne ISCO SyriXus Syringe Pump models use the same Teledyne ISCO SyriXus Syringe Pump Controller. Also, all SyriXus pumps can be used with the prior generation Teledyne ISCO D-Series Syringe Pump Controller (see section 3.2 in the SyriXus Pump Installation and Operation Guide.)

Teledyne ISCO pumps are normally operated with a check valve in the refill line to prevent backflow into the working fluid source reservoir when the inlet valve is opened.

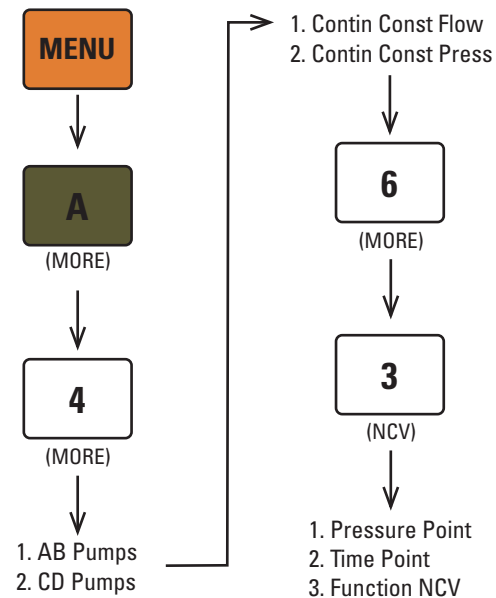
This backflow results from the pressurized fluid on the pump side of the inlet valve causing fluid to flow backward through the inlet valve into the supply reservoir when the valve is opened.

When the working fluid is viscous (more than 150 centipoise), the check valve on the supply fluid inlet may create an undesirable restriction during refill. The SyriXus pumps can be operated without the refill check valve installed and the controller has a feature to prevent backflow when a check valve is not present. This feature is called the NO CHECK VALVE (NCV) option, described in section 5.6.4 of the SyriXus Pump User Manual.

The 500xv syringe pump was designed for use with more viscous fluids and is the model most frequently used without a refill check valve.

Instructions

Almost all syringe pumps are used with fluids that are less viscous. As such, all SyriXus controllers are shipped with the NO CHECK VALVE (NCV) feature turned off. If the check valve is removed from the inlet tubing, this feature can be readily enabled using the keystrokes shown here.



Option 3. Function NCV toggles the NCV option on or off by pressing the '3' key. When the desired setting is displayed, press the 'D' soft key repeatedly to return to the home screen. The setting selected will be stored and retained even when the power is disconnected.

Teledyne ISCO

P.O. Box 82531, Lincoln, Nebraska, 68501 USA
Toll-free: (800) 228-4373 • Phone: (402) 464-0231 • Fax: (402) 465-3091

teledyneisco.com

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