

Solvent Saver



The Solvent Saver is designed to automatically switch your solvent waste line from recycle mode (mobile phase returns to the solvent supply) to waste. While recycling solvent is not recommended in all GPC systems, it is beneficial for most organic solvents. Recycling can not only save money on solvent expenses, but there are many benefits to your entire GPC system. Constant flow from the pump prolongs the life of pump pistons, seals, and check valves by keeping them clean and free of precipitation and oxidation buildup caused by static conditions. GPC columns also benefit from constant flow because the column packing material remains more stable giving much more reproducible results.

Recycling solvents is beneficial for most organic solvents. Recycling can save time and money.

Installation

There are three bulkheads on the front of the module. Connect the waste line from your GPC instrument to the middle bulkhead. All three bulkhead fittings are standard Valco 1/16". The bulkhead on the left connects to the 0.04" tubing that goes to the solvent supply. The bulkhead on the right connects to the 0.04" tubing that goes to the waste bottle. Connect the inject start or trigger wires into the contact terminals on the back of the Solvent Saver. Connect the other end of the trigger wires to the trigger terminals of your A to D device (TDA, 270, DM400, etc.). Finally plug in the DC power jack (12VDC 1.5A) also located on the back of the module.

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Manual Operation:

There are two buttons on the front panel, these are for manual operation. The blue button on the left should be illuminated on power up, indicating that the flow is being directed back into the solvent bottle and the button on the right should be white (not illuminated). Pressing the button on the right will cause it to turn on (amber) and divert the flow to the waste bottle. Pressing a non-illuminated button will cause the flow to be diverted toward that direction for manual operation.

Setting the Duration:

On the back panel the 8 pos dip switch is used for setting the switching time. The settings are binary weighted from 1 min. (switch 1=on, 2 thru 8off) to 128 min. (switch 1 thru 7 off, switch 8=on). The maximum time would be 255 min. or 11111111.

Example:

Run time = 25 min.

	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	
	1min	2 min	4 min	8 min	16 min	32 min	64 min	128 min	
	on	off	off	on	on	off	off	off	
Binary Value	1	0	0	1	1	0	0	0	= 1+8+16 = 25min

When the inject start signal is received the time will start and the waste will be diverted to the waste container. Upon completion of the set time the flow will be sent back to the solvent supply bottle and remain in that condition until the next injection is made by the autosampler or manual injector with a contact closure signal.

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MD Scientific is sole distributor in Denmark for Viscotek
www.md-scientific.dk - 7027 8565 - info@md-scientific.dk