

KNAUER Preparative Module 6100 for Batch Chromatography

Overview

The Preparative Module 6100 is a combination module consisting of up to three single modules: Smartline Pump 100 plus a multiport switching valves located on the front and side of the unit.

The single instruments as well as the power supply are located in a single housing which easily integrates into either a Smartline tower or a Preline system. The operation and control of the individual units is not affected by the integration into the module.



Sample Dosing System

The HPLC Pump 100 can be equipped with different pump heads for maximum flow rates of 10 or 50 ml/minute in either stainless steel or, for biocompatible applications, titanium materials.

This pump can be used for injection of samples into a preparative system, either directly or via a sample loop, in both cases a switching valve isolates the pump from the system itself.

Fraction Collection

Fraction collection is realised using the multiport valve located on the side of the module. Valves with either 6, 12 or 16 outlet ports are available. Using the fraction collection control software option from Knauer permits solvent recycling and fraction collection based on either time (volume), signal level, signal slope or even spectral similarity.

Specifications

The actual overall performance specifications of these systems depend to a large extent on the application itself and the actual system configuration. Flowspek AG offers a validation service for the system which will check all agreed specifications for the component modules and ensures that these are all functioning correctly within their specifications. The scope of any validation is usually agreed with our customers and then controlled validation document created.

Smartline 100 Pump	
Delivery System	Dual piston pump with main and auxiliary piston
Flow ranges (ml/min)	0.1 - 9.99 ml/min 0.1 - 49.9 ml/min
Pressure	max. 400 bar max. 150 bar
Flow Rate Accuracy	better then 0.5 % at 1 ml/min RSD (Relative Standard Deviation)
Display	Flow is permanently displayed
System Protection	Analogue setting of Pmax
Control	RS-232 Interface, Remote Start input, Output for error conditions
All specifications may be subject to change for technical reasons.	

Ordering Information

A5004V01	Smartline Prep-Modul with Pump 100 (50ml pump head without pressure transducer), 2 valve drives for 6-Port valve and 7-Port-valve, 1/8"
A5004V02	Smartline Prep-Modul with Pump 100 (50ml pump head without pressure transducer), 2 valve drives for 6-Port valve and 7-Port-valve, 1/16"
A5004V03	Smartline Prep-Modul with Pump 100 (50ml pump head without pressure transducer), valve drive for 6-Port valve, valve drive for 13-Port-valve, 1/8"
A5004V04	Smartline Prep-Modul with Pump 100 (50ml pump head without pressure transducer), valve drive 6 with 6-Port valve, valve drive 16 with 17-Port-valve, 1/16"
A5004V06	Smartline Assistant with Pump 100 (10ml pump head without pressure transducer), valve drive 6 with 6-Port 1/8" valve
A5004V07	Smartline Assistant with valve drive 6 with 6-Port 1/8" valve, valve drive for 13-Port-valve, 1/8"