



CP CLASS

Constant Pressure Dual Head Pumps

The high performance **CP Class** consists of dual-headed, positive displacement piston pumps with constant pressure control, covering a wide range of flows, with pressures up to 25,000 psi. Standard fluid path materials are Stainless Steel and optional Titanium. Other available features include jacketed heads for temperature controlled processes.

The **CP Class** pumps are widely used for LC Column packing, as well as many process applications. The constant-pressure feedback loop automatically adjusts solvent flow to maintain constant system pressure and allows the user to select a wide range of process parameters, including desired pressure set point, ramp rate, and upper flow rate limit.

The **CP Class** is available as standalone units, and also with the SSI Column Packing System (called Pack-in-a-Box). Features include an integrated Prime-Purge Valve, interactive keypad control, advanced pressure control algorithms, and complete PC control and status through RS-232 and Micro USB 2.0 ports. With 5 mL/min, 12 mL/min, 24 mL/min, 100 mL/min, and 300 mL/min versions, the **CP Class** will meet most LC Column packing and process needs.

Components are also available in Kit Form for OEM Applications.

Enhanced Cosmetic Design



Drip Tray & Leak Sensor



Flow Rate

5 mL/MIN
12 mL/MIN
24 mL/MIN
100 mL/MIN
300 mL/MIN

Pressure

Up To
25,000 PSI
(5 mL/MIN)

Fluid Path

STAINLESS STEEL
OR TITANIUM

Control

RS-232, MICRO USB,
RUN/STOP,
ANALOG (0-10V, 4-20mA)

CP CLASS - MODEL SELECTION MATRIX

Dual Head Constant Pressure Pumps for LC Column Packing and Many Process Applications

USE THE FOLLOWING LISTS OF OPTIONS AND OPTION CODES TO CONSTRUCT YOUR PUMP MODEL NUMBER.

C P		FLOW RATE	MATERIAL	SELF-FLUSH	PRESSURE & LEAK SENSORS	PISTON SEAL	INLET/OUTLET TUBING	SPECIAL OPTIONS
PUMP CLASS								
C P = CP Class	0 0 5	5 mL/min (25,000 psi max.)**	S = Stainless Steel Fluid Path	F = w/ Self-Flush Piston Wash	X = Pressure & Leak Sensors *10,000 psi max (12 or 24 mL) *4,000 psi max (100 mL) *1,000 psi max (300 mL)	1 = Standard Seal (SS Energizer)	Inlet A = 1/8" OD (flexible)	= Standard Product (leave blank for standard options & cabinet) X X = Customer Special (Consult Factory)
	0 1 2	12 mL/min (10,000 or 18,000 psi max.)	T = Titanium Fluid Path	N = No Self-Flush	Y = Pressure & Leak Sensors 18,000 psi max (5 or 12 mL)	2 = Organic Seal (SS Energizer)	B = 1/8" OD (rigid)	
	0 2 4	24 mL/min (10,000 psi max.)	J = Jacketed SS Pump Heads		Z = Pressure & Leak Sensors 25,000 psi max (5 mL)	3 = Standard Seal (FP Energizer)	C = 1/8" OD (rigid)	
	1 0 0	100 mL/min (4,000 psi max.)				4 = Organic Seal (FP Energizer)	E = 1/4" OD (rigid)	
	3 0 0	300 mL/min (1,000 psi max.)			* Max. Pressure is dependent on Flow Rate. See Flow and Pressure Options below.		G = 1/8" OD (flexible)	
							Note: Inlet and Outlet Fittings are included with the pump for the specified tubing. For options A, E, and G, flexible inlet tubing and filter are included.	

EXAMPLE MODEL NUMBER: C P 0 1 2 S F Y 1 A

Please Note: Some features and options are not available with certain configurations. Please refer to the Part Number Configurator (Excel) to verify model number before ordering. Download at: www.ssihplc.com/configurator/

CP CLASS - SPECIFICATIONS

Flow Rate Range and Max. Pressure Ratings*	 0.000 - 5.000 mL/min (25,000 psi)** 0.00 - 12.00 mL/min (10,000 psi or 18,000 psi) 0.00 - 24.00 mL/min (10,000 psi) 0.0 - 100.0 mL/min (4,000 psi) 0.0 - 300.0 mL/min (1,000 psi)	Wetted Materials..... (See Above Options), Synthetic Ruby, Sapphire, UHMWPE, PTFE 6.3" H x 10" W x 17" D (16 x 25.4 x 43.2 cm) 30 lbs. (13.6 kg)
Pressure Accuracy	 ±2% of full scale pressure	Weight
Pressure Control Accuracy	dependent on hydraulic system parameters. Pump automatically adjusts fluid flow to maintain constant system pressure under typical column-packing usage. Pump does not contain an automatic pressure-relief valve.	Power..... 100-240 Vac (± 10%), 50-60 Hz Control RS-232, Micro USB, Run/Stop, Analog (0-10V, 4-20mA)

* Flow Rate is dependent on solvent selection and operating pressure. ** 5 mL/min (up to 18,000 psi) option rated for CSA.