

AZURA P 2.1S und 4.1S Analytical HPLC Pumps

The AZURA P 2.1S and 4.1S pumps were developed for eluent delivery up to 400 bar for flow rates up to 10 ml/min in HPLC and 150 bar for flow rates up to 50 ml/min. They are suitable for most applications where a compact easy-to-integrate pump is required.

The 2.1S range is not fitted with a pressure sensor and monitors the maximum and minimum permitted limits via the current of the drive motor.

The 4.1S range of pumps all have an integrated pressure sensor which allows monitoring of pressure during operation via an analogue output.



Key features

- versatile due to wide flow rate range (0.001-10 ml/min)
- powerful and precise drive, with low pulsation
- compact dimensions
- flexible control via Ethernet, RS-232 and analog signals

Specifications

Solvent delivery	
Pump type	Ultra-compact high pressure pump
Delivery system	Dual piston pump with one working piston, one auxiliary
Pump head	10 ml/min or 50 ml/min
Pump head materials	ceramic, stainless steel or titanium
Maximum pressure	400 bar with 10 ml/min. head; 150 bar with 50 ml/min. head
Maximum flow rate	0.001 - 10 ml/min; 0.1 - 8.0 ml/min (recommended) 0.01 - 50 ml/min; 1 - 40 ml/min (recommended)
Flow rate increment	0.001 ml/min. with 10 ml/min head 0.01 ml/min. with 50 ml/min head
Flow rate accuracy	± 1%, at 5 - 50% of flow range using ethanol/water 10:90
Flow rate precision	≤ 0.5 % RSD, at 1 ml/min using ethanol/water 10:90

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System protection	I_{\min} and I_{\max} are programmable for the 2.1S range max. And min. pressure set digitally for the 4.1S range
Wetted materials	graphite fiber reinforced PTFE, FKM, PEEK, sapphire, aluminum oxide (Al_2O_3)
Communication	
Control	LAN; RS-232; analog and event controlled
Analog inputs	0-10 V
Analog control input	flow rate
Technical parameters	
Ambient conditions	temperature range: 10–40 °C; 50–104 °F air humidity: below 90 % humidity (non condensing)
General	
Power supply	voltage range: 100 - 240 V, 50 - 60 Hz
Dimensions	113 x 135 x 225 mm (W x H x D)
Technical data are subject to change without notice.	

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Product Information

APG90BB	AZURA 2.1S compact HPLC pump with 10 ml/min pump head, ceramic, without pressure sensor
APG90EC	AZURA 2.1S compact HPLC pump with 10 ml/min pump head, Hastelloy® C, without pressure sensor
APG90BF	AZURA 2.1S compact HPLC pump with 10 ml/min pump head, stainless steel (titanium free), without pressure sensor
APG90AA	AZURA 2.1S compact HPLC pump with 10 ml/min pump head, stainless steel (titanium free), without pressure sensor
APG90AA	AZURA 2.1S compact HPLC pump with 10 ml/min pump head, stainless steel, without pressure sensor
APG90AC	AZURA 2.1S compact HPLC pump with 10 ml/min pump head, titanium, without pressure sensor
APG90DA	AZURA 2.1S compact HPLC pump with 50 ml/min pump head, stainless steel, without pressure sensor
APG90DC	AZURA 2.1S compact HPLC pump with 50 ml/min pump head, titanium, without pressure sensor
APG20BB	AZURA 4.1S compact HPLC pump with 10 ml/min pump head, ceramic
APG20AA	AZURA 4.1S compact HPLC pump with 10 ml/min pump head, stainless steel
APG20AC	AZURA 4.1S compact HPLC pump with 10 ml/min pump head, titanium
APG20DA	AZURA 4.1S compact HPLC pump with 50 ml/min pump head, stainless steel
APG20DC	AZURA 4.1S compact HPLC pump with 50 ml/min pump head, titanium