

Compact HPLC pumps

AZURA P 4.1S

Ultra-compact high pressure pump, with pressure sensor

AZURA P 4.1S pump was developed for eluent delivery up to 400 bar and for flow rates up to 50 ml/min in HPLC and other applications, where a compact easy-to-integrate pump is required. Pump heads with volumes of 10 and 50 ml are available.



Solvent delivery

Pump type	ultra-compact high pressure pump
Delivery system	dual piston pump with one working piston, one auxiliary
Pump head	10 / 50 ml/min
Pump head materials	titanium/ceramic/stainless steel
Maximum delivery pressure	40 MPa 10ml pump head & 15 MPa 50 ml pump head
Maximum flow rate	0.01 - 50 ml/min
Flow rate increment	0.01 ml/min
Flow rate accuracy	± 1%, measured at 5 - 50% of flow range using ethanol/water 10:90
Flow rate precision	≤ 0.5% RSD, measured at 5 ml/min using ethanol/water 10:90
System protection	P min and P max are programmable
Wetted materials	titanium, graphite fiber reinforced PTFE, FKM, PEEK, sapphire, aluminum oxide (Al ₂ O ₃)
Control	LAN; RS-232; analog and event controlled
Analog inputs	0 - 10 V
Analog control input	flow rate
Max. viscosity	100 mPa·s
Liquid temperature range	-10 - 60 °C

Technical parameters

Ambient conditions	temperature range: 10 – 40 °C; 50 – 104 °F air humidity: below 90% humidity (non condensing)
Power supply	voltage range: 100 - 240 V, 50 - 60 Hz
Dimensions	113 x 135 x 225 mm (W x H x D)
Weight	2.4 kg

Ordering details:

APG20AA	AZURA P 4.1S Compact HPLC pump with 10 ml/min pump head, stainless steel
APG20BB	AZURA P 4.1S Compact HPLC pump with 10 ml/min pump head, ceramic
APG20AC	AZURA P 4.1S Compact HPLC pump with 10 ml/min pump head, titanium
APG20DA	AZURA P 4.1S Compact HPLC pump with 50 ml/min pump head, stainless steel
APG20DC	AZURA P 4.1S Compact HPLC pump with 50 ml/min pump head, titanium