

**Part No: APG20FB**

**Compact pump with pressure sensor and 50 ml/min ceramic pump head**  
For HPLC and dosing applications

With its small footprint, the compact dual piston pump AZURA P2.1S can be used for a wide range of laboratory tasks. A pressure rating of up to 400 bar and chemical resistance to a wide range of eluents make it the perfect choice for LC and dosing applications. Pump heads with maximum flow rates of 10 and 50 ml/min are available.

Moreover, its exchangeable pump head allows adaptation of the pump for delivery of aggressive media and bioinert applications. The pump head can be heated or cooled with optional accessories.



*AZURA P 4.1S pump with pressure sensor*

## General Information

<b>Max. flow rate</b>	50 ml/min
<b>Flow rate range</b>	0.01–50 ml/min
<b>Flow rate increment</b>	0.01
<b>Maximum delivery pressure [psi]</b>	2180 psi
<b>Maximum delivery pressure [bar]</b>	150 bar
<b>Maximum delivery pressure [MPa]</b>	15 MPa
<b>Pressure range</b>	<p>150 100 50 0</p> <p>pressure [bar]</p> <p>0 10 20 30 40 50</p> <p>flow rate [ml/min]</p> <p>— 10 ml pump head ceramic    recommended    recommended (continuous)</p>
<b>Pump head materials</b>	Ceramic
<b>Maximum viscosity</b>	100 cp
<b>Liquid temperature range</b>	4–60 °C (39.2–140 °F)
<b>Gradient</b>	Isocratic
<b>Leak management</b>	no
<b>Wetted materials</b>	GFP (graphite fiber reinforced PTFE), Titanium, sapphire, ruby, aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ), ceramic, FKM, PEEK, Zirconium oxide
<b>Note</b>	Pressure sensor membrane made of stainless steel; limited wetting in fluidic path

## Detailed information

Best working conditions	1.0–40.0 ml/min
Continuous working conditions	3–25 ml/min
Pump type	Ultra-compact high pressure pump
Pulsation compensation	no
Active piston seal wash	no
Piston seal washing	yes
System protection	<ul style="list-style-type: none"><li>• <math>P_{\min}</math> and <math>P_{\max}</math> adjustable</li><li>• <math>I_{\min}</math> and <math>I_{\max}</math> adjustable</li></ul>
Pump head inlet (standard)	1/4"-28 UNF (flat bottom)
Pump head outlet (standard)	10–32 UNF (coned)

## Communication

Interfaces	display
Control	RS-232; analog; button on device
Analog inputs	0–10V

## General

Power supply	100–240 V; 50–60 Hz
Dimensions	121 x 129 x 220 mm
Weight	2.3 kg
Leak sensor	no
Ambient conditions	temperature range: 10–40 °C; 50–104 °F air humidity: below 90 % humidity (non condensing)

## ACCESSORIES & SPARE PARTS



**Pump head 10 ml**  
Pump head 10 ml, stainless steel

**Article No.: AHB40**



**Accessory kit AZURA P 2.1S and P 4.1S**

included in shipkit

**Article No.: FPG**



**Accessory kit AZURA small devices cable kit for all devices with footprint "S" included in shipkit**

**Article No.: FZA01**



**Pump head cooling and heating device**

for 10 and 50 ml pump heads

**Article No.: A2035-1**

## DOCUMENTS AND MORE INFORMATION

### AZURA Pump P 4.1S / P 2.1S User Manual EN (V6870)

Manual   English   PDF   2.0 MB



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