

Part No: APG20EA

Compact pump with pressure sensor and 10 ml/min stainless steel pump head

For HPLC and dosing applications

With its small footprint, the compact dual piston pump AZURA P4.1S can be used for a wide range of laboratory tasks. It features an integrated pressure sensor, which ensures pressure-independent flow rate accuracy. Moreover, for system protection, the pump drive is switched off when reaching a pre-defined pressure limit. Pump heads with maximum flow rates of 10 and 50 ml/min are available.

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.

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

KEY FEATURES



compact



Made in Germany

General Information

Max. flow rate	10 ml/min
Flow rate range	0.001–10 ml/min
Flow rate increment	0.001
Maximum delivery pressure [psi]	5800 psi
Maximum delivery pressure [bar]	400 bar
Maximum delivery pressure [MPa]	40 MPa
Pressure range	<p>— 10 ml pump head stainless steel recommended recommended (continuous)</p>
Pump head materials	Stainless Steel
Maximum viscosity	100 cp
Liquid temperature range	4–60 °C (39.2–140 °F)
Gradient	Isocratic
Leak management	no
Wetted materials	GFP (graphite fiber reinforced PTFE), ruby, sapphire, Titanium, PEEK
Note	Pressure sensor membrane made of stainless steel; limited wetting in fluidic path

Detailed information

Best working conditions	0.1–8.0 ml/min
Continuous working conditions	0.1–4.0 ml/min
Flow rate accuracy	±1%
Flow rate accuracy conditions	5 - 50% of flow range using ethanol/water 10:90
Flow rate precision	measured at 1 ml/min using ethanol/water 10:90
Flow rate precision conditions	≤ 0.5 % RSD
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">• P_{min} and P_{max} adjustable• I_{min} and I_{max} adjustable
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

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

Manual English

Download



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

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