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Part Number: APG20EA
Base Pump: AZURA** P 4.1S

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

For HPLC and dosing applications

With its small footprint, the compact dual-piston pump AZURA P 4.1S can be used for many different 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.



AZURA P 4.1S pump with pressure sensor

A pressure rating of up to 400 bar and chemical resistance to a wide ranges of eluents make it the perfect choice for LC and dosing applications.

The 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.

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

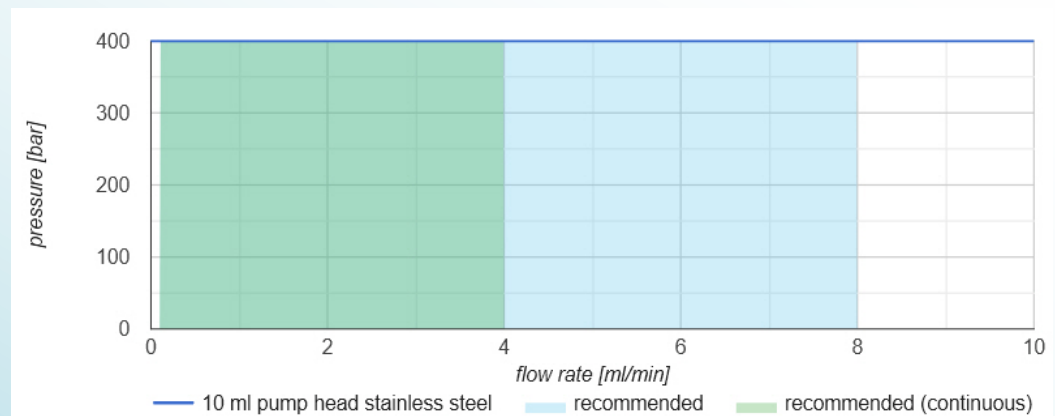
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TECHNICAL DATA

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]:	40MPa

Pressure range:



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:	< 0.5% RSD
Flow rate precision conditions:	Measured at 1 ml/min using ethanol/water 10:90
Pulsation compensation:	No
Pump type:	Ultra-compact high pressure pump
Active Piston seal wash:	No
Piston seal washing:	Yes
System protection:	Pressure min and 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
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)