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Part Number: APG20FG

Base Pump: AZURA\*\* P 4.1S

# Compact pump with pressure sensor and 50 ml/min stainless steel pump head, for water dosing

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



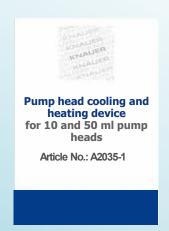
AZURA P 4.1S pump with pressure sensor

## **ACCESSORIES & SPARE PARTS**











## **TECHNICAL DATA**

#### **General Information**

Max. flow rate: 50 ml/min

Flow rate range: 0.01-50 ml/min

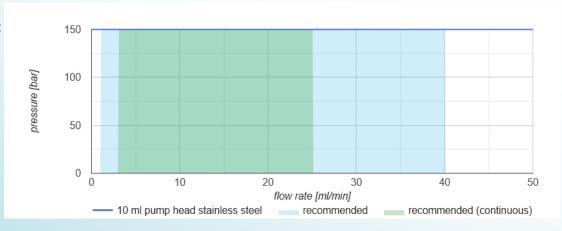
Flow rate increment: 0.01

Maximum delivery pressure [psi]: 2180 psi

Maximum delivery pressure [bar]: 150 bar

Maximum delivery pressure [MPa]: **15 MPa** 

Pressure range:



Pump head materials: Stainless steel

**Maximum viscosity:** 100 ср

Liquid temperature range: 4-60 °C (39.2-140 °F)

Isocratic **Gradient:** 

Leak management: No

Wetted materials: GFP (graphite fiber-reinforced PTFE), ruby, sapphire, Aluminum oxide (Al<sub>2</sub>0<sub>3</sub>), FKM, PEEK, Titanium,

stainless steel,

Note: Pressure sensor membrane made of stainless steel;

limited wetting in fluidic path



#### **Detailed information**

Best working conditions: 1.0-40.0 ml/min

3-25 ml/min **Continuous working conditions:** 

±1% Flow rate accuracy:

Flow rate accuracy conditions: 5-50% of flow range using ethanol/water 10:90

Flow rate precision: < 0.5% RSD

Measured at 1 ml/min using ethanol/water 10:90 Flow rate precision conditions:

**Pulsation compensation:** No

Pump type: Ultra-compact high pressure pump

Active Piston seal wash: No

Piston seal washing: Yes

 $P_{min}$  and  $P_{max}$  adjustable;  $I_{min}$  and  $I_{max}$  adjustable System protection:

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

100-240 V; 50-60 Hz Power supply:

121 x 129 x 220 mm **Dimensions:** 

2.3 kg Weight:

No Leak sensor:

**Ambient conditions:** Temperature range: 10-40 °C; 50-104 °F air humidity: <90 % (non condensing)