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Laborgeräte zu fairen Preisen.

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Pulse damper ZN90

Datasheet and operating guidance · Product code 1798 · ZN90-PTFE

The ZN90 pulse damper reduces the pulsating delivery of peristaltic pumps. A gas cushion in the upper part of the vessel absorbs pressure fluctuations and helps provide a more even liquid flow. The actual effect depends on the application and operating conditions.



Technical data

Property	Specification
Model / product code	ZN90-PTFE / 1798
Housing / seal	PTFE / FFKM
Vessel volume	180mL
Tubing inner diameter	1.6–9.6mm
Tubing materials	Silicone, PharMed, PVC, Viton, A-60-G/F
Maximum pressure	0.3MPa (3bar)
Temperature range	0–80°C
Temperature change	Less than 5°C/min
Dimensions	90 × 90 × 90mm
Unit weight	510g

Check the chemical compatibility with the pumped liquid and the permissible pressure of all connected components before use. Observe the lowest applicable limit.

Technical specifications are subject to change without prior notice.

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Operating guidance

1 Application and preparation

For reducing pulsation when transferring liquids with peristaltic pumps. Tubing, seal and housing must be compatible with the pumped liquid and operating temperature. The listed tubing materials do not replace an application-specific compatibility check.

Before installation, check the housing, connections and tubing for damage, contamination and secure fit. Do not use damaged or leaking components.

2 Connection and commissioning

Switch off the pump, prevent unintended starting and fully depressurise the connected line. Position the damper securely and connect the lines without tension or kinks. Use only tubing and fittings suitable for the actual connection type.

Start pumping at low speed. Check the connections for leaks and gradually adjust to the required operating point. Observe the permissible pressure and temperature limits; the pressure limit is not a setpoint to be adjusted.

3 Operation and safety

During operation, check the connected lines for leaks and damage. If leakage, an unusual pressure increase or damage occurs, stop the pump and resolve the cause before resuming operation.

⚠ Note: Never open or loosen the vessel or its connections while pressurised. Before any intervention, switch off the pump and depressurise the entire connected system. Wear personal protective equipment appropriate to the liquid.

4 Cleaning and inspection

Before changing the liquid and after use, flush with a cleaning medium compatible with the pumped liquid, housing, seal and tubing. Select cleaning agents and temperatures according to material compatibility; keep temperature changes below 5°C/min.

Check connections and tubing before reuse. If there is visible damage or persistent leakage, stop using the damper and contact Labmaterial GmbH.