



Flow Chemistry Back Pressure Regulator

BPR01-1W

Zaiput Flow Technologies' Back Pressure Regulators are specifically designed for the needs of the flow chemist. Our devices feature a unique combination of high accuracy and precision, broad pressure range and outstanding chemical compatibility.

In addition, our pressure regulators have the unique feature that the set point can be selected by the user. The user selects the back pressure set point by pressurizing air inside a dedicated chamber of the device. The set point is equal to the pressure of the air inside the device.



Key Features:

- ◆ User selected back pressure
- ◆ Works with gas, liquids
- ◆ Excellent chemical compatibility (Wetted materials ETFE and PFA)
- ◆ Pressure range 0-2MPa (0-300 psi) *
- ◆ High Precision (error <1%) across flow rates (0-0.40ml/min) and pressure set points
- ◆ Can be used for higher flow rates (0.4-1.0 ml/min) with <5% error
- ◆ Ideal for harsh chemistries
- ◆ Comes at an affordable price
- ◆ Low dead volume (<10 μ l)

The device can be used in two ways:

1. *Set it and forget it* mode: the set point is selected by the user by pressurizing and sealing the dedicated air chamber. For a different set point, the procedure has to be repeated.
2. *Continuous* mode: the air chamber is connected to a pressure source (and not sealed). Therefore, by changing the value of the pressure source, the back pressure set point is changed. For instance, such an air pressure change can be achieved either by manually changing the pressure output of a gas cylinder or by using a computer controlled air pressure regulator.

* The device is available in two different configurations: A) For the dual use (*Set it and forget it* + *Continuous mode*) the minimum set point pressure is 0.4MPa (60psi), B) For *Continuous mode* use only, the device does not have a minimum set point.

Zaiput Flow Technologies

Groundbreaking Innovations in Flow Chemistry

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