

# SENTRY ADJUSTABLE BACK PRESSURE REGULATOR

## Pressure Conditioning

### SAMPLE CONDITIONING

The Sentry® Adjustable Back Pressure Regulator (ABPR) is ideal for situations that require fine pressure adjustments, such as with varying distances between analytics or with varying analytical requirements. The ABPR combines the function of an adjustable back pressure regulator and a relief valve. Regulated pressure provides constant flow to analyzers, with excess bypassed to the sink as sample.

### MODEL

ABPR (7-04990A)

### BENEFITS

Most commonly used relief valves cause pressure spikes when they operate and are prone to leaking due to deposits formed around the seal. With the Adjustable Back Pressure Regulator, as long as sample pressure is above the minimum setpoint, there always will be flow from the exhaust port. The exhaust of the ABPR is constantly flowing, preventing deposits. Plus, the adjustable setpoint allows fine tuning of sample flow rates. The relieving capacity exceeds that of most commonly used 1/4-inch relief valves.

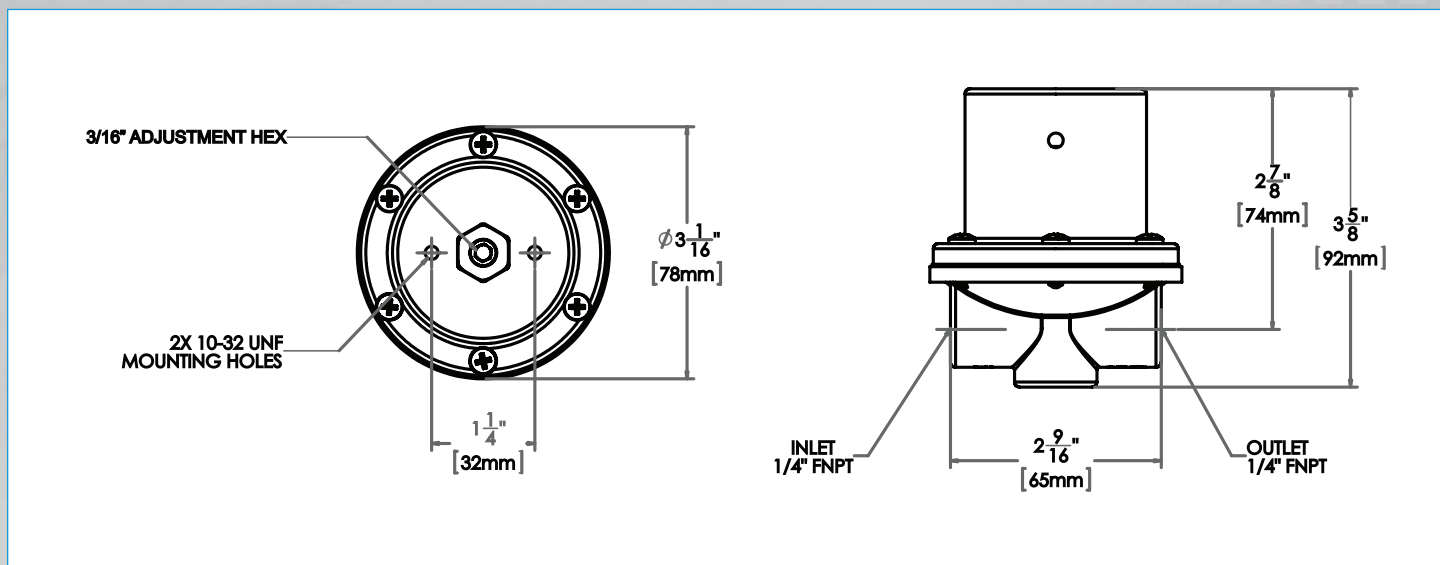
### FEATURES

- Designed specifically for power plant sample flow rates
- Most effective way to assure constant flow through online analyzers
- Less prone to plugging and sticking than a pressure-reducing valve
- Will not wire draw or erode in normal service
- Adjustable setpoint within a range of 5-60 psig  
0.3 - 4.14 bar

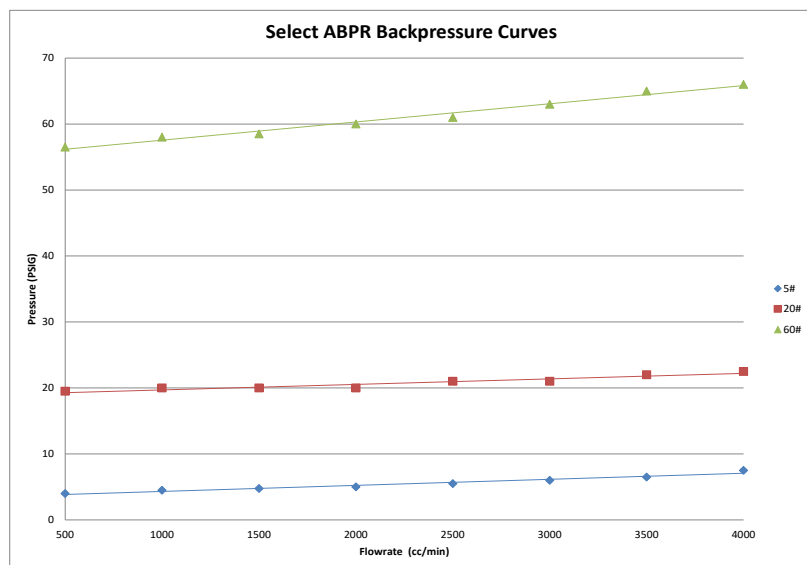


Sample. Monitor. Measure.





SPECIFICATIONS	
weight	2 lbs (1 kg)
ambient temperature	40°F to 165°F (-40°C to 74°C)
connections	1/4 in NPT female
wetted materials	316 SS and Viton®
regulated pressure	5-60 psig
relieving capacity	see chart



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