

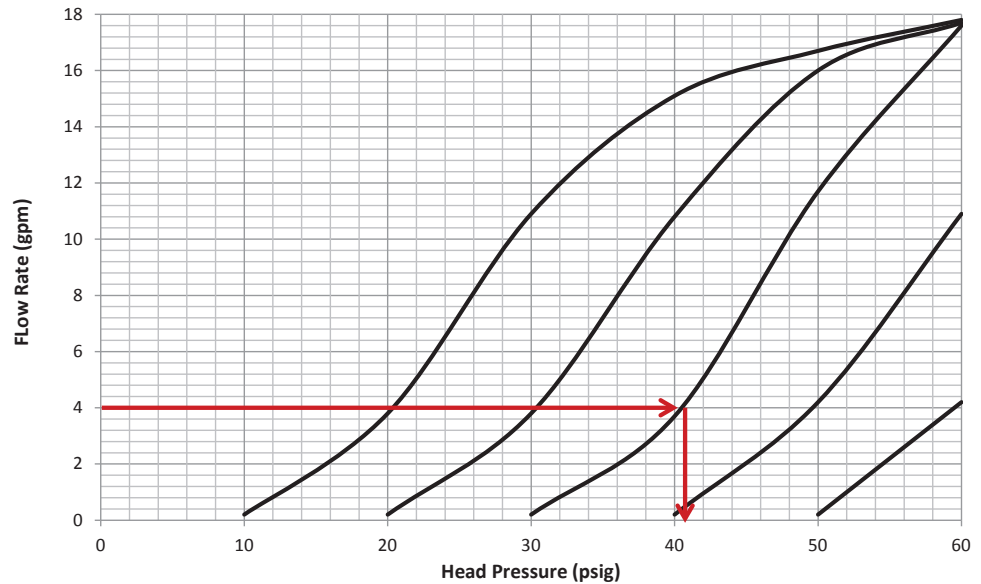
Valve Performance Charts

Performance charts can be used to properly size and estimate the performance of Blacoh back pressure and pressure relief valves. Each curve on the chart represents a valve set pressure. The set pressure, which is measured in pounds per square inch, is the pressure at which the valve opens and allows fluid to flow through it.

The sample chart below shows set pressure curves for 10 to 60 psig. The horizontal axis on the chart indicates the head pressure drop across the valve. The vertical axis indicates the flow through the valve. As the flow through the valve increases so does the pressure drop across the valve.

To determine the pressure drop across a valve at a specific flow rate, follow the flow rate line horizontally until it intersects the set pressure curve for the valve. The pressure drop across the valve is found by dropping straight down to the horizontal head pressure axis.

In this sample chart, if the flow rate of a metering pump is 4 gpm and the set pressure for the valve in the system is 30 psig, the pressure drop across the valve when the pump is running will be 41 psig.



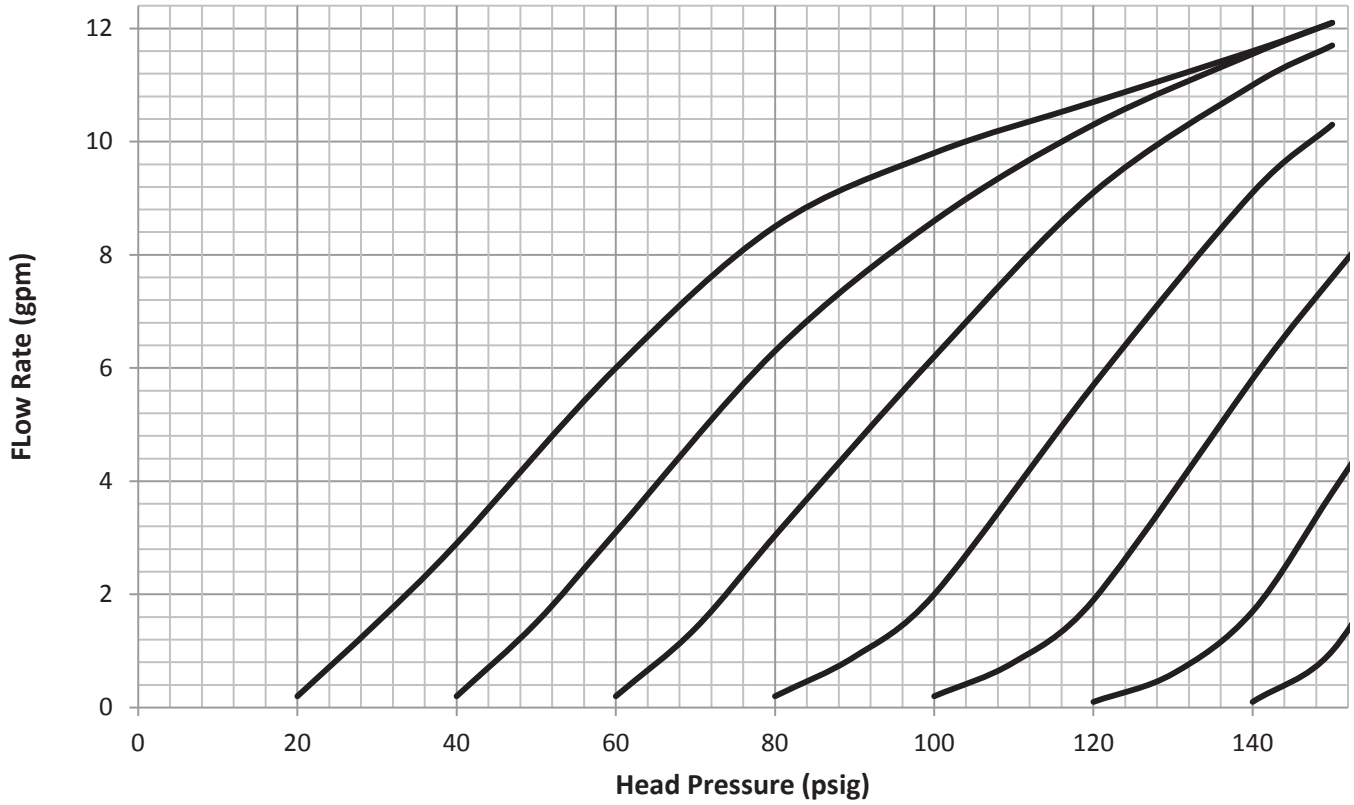
△ The set pressure can be adjusted by removing the spring housing cover and turning the adjustment screw. Turning the adjustment screw clockwise increases the set pressure. Turning the adjustment screw counterclockwise reduces the set pressure. Refer to the Installation & Operation Manual for detailed instructions.

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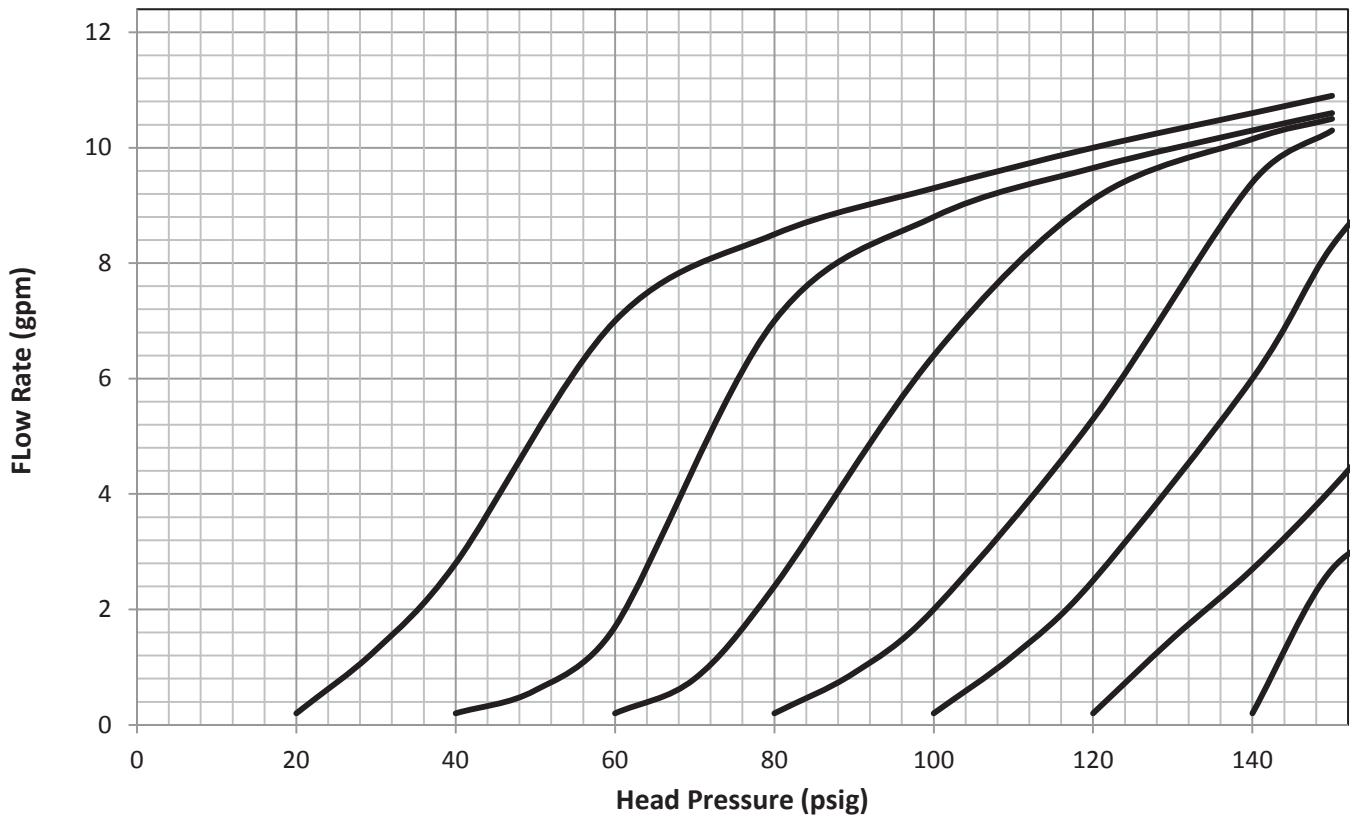
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Back Pressure Valves 1/4" – 1/2" Mini

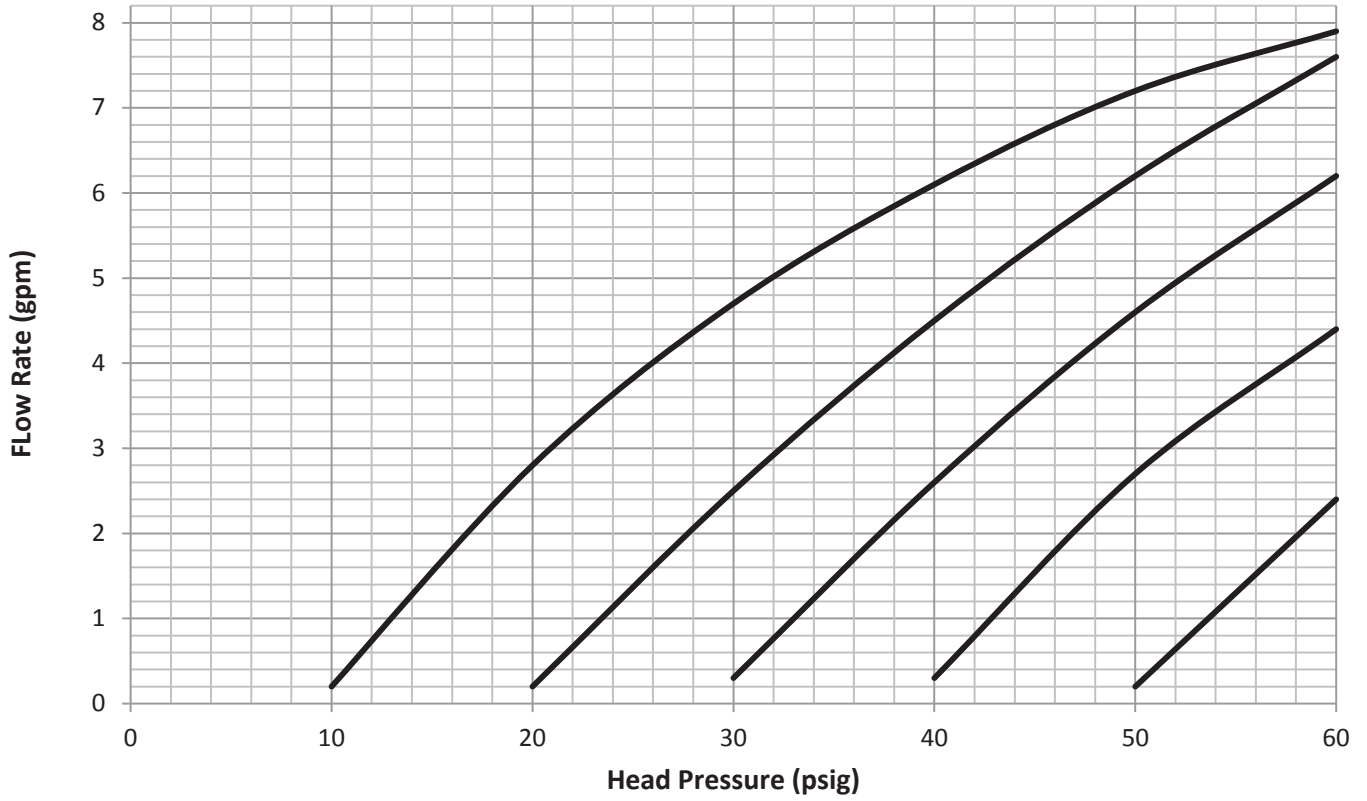
1/4" – 1/2" Back Pressure Valve, 5-150 PSI Spring, PTFE Diaphragm



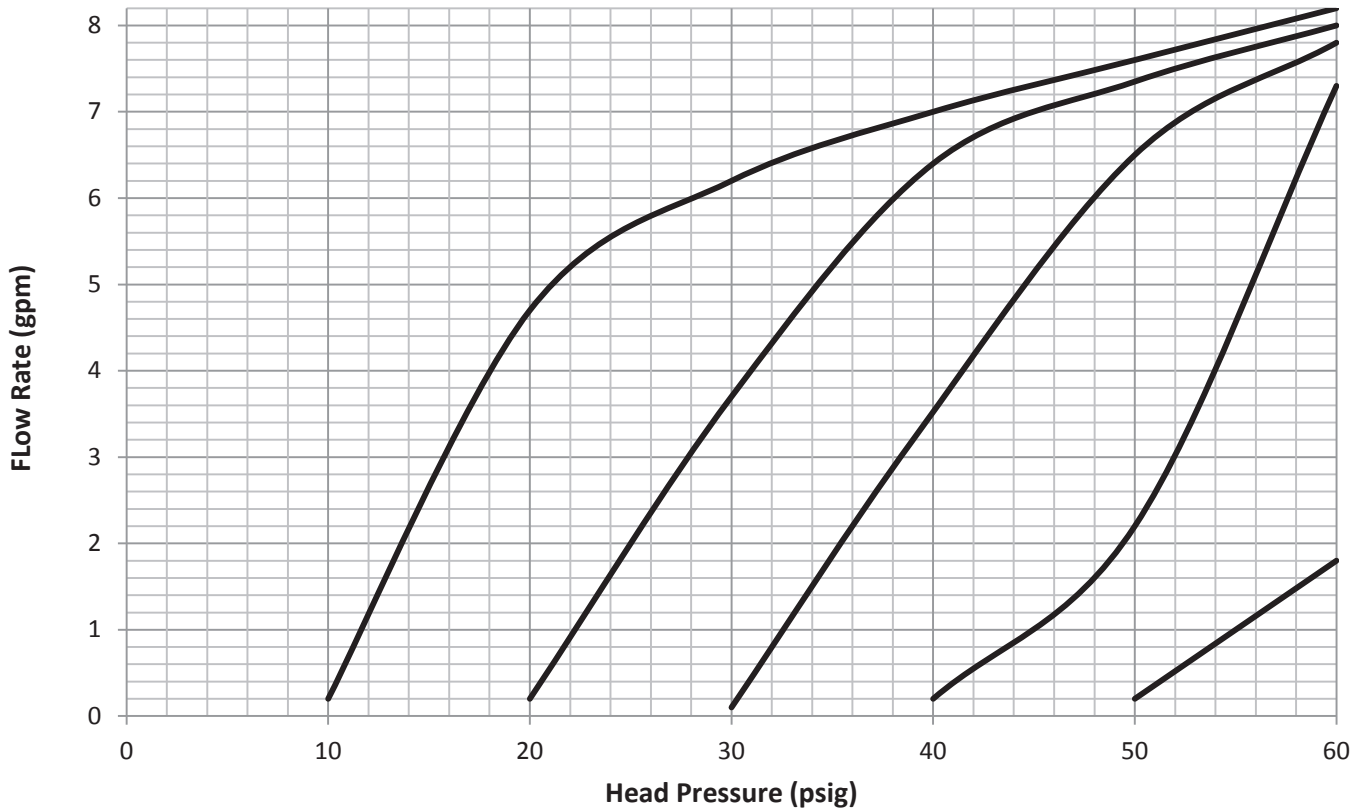
1/4" – 1/2" Back Pressure Valve, 5-150 PSI Spring, Elastomer Diaphragm



1/4" – 1/2" Back Pressure Valve, 5-50 PSI Spring, PTFE Diaphragm

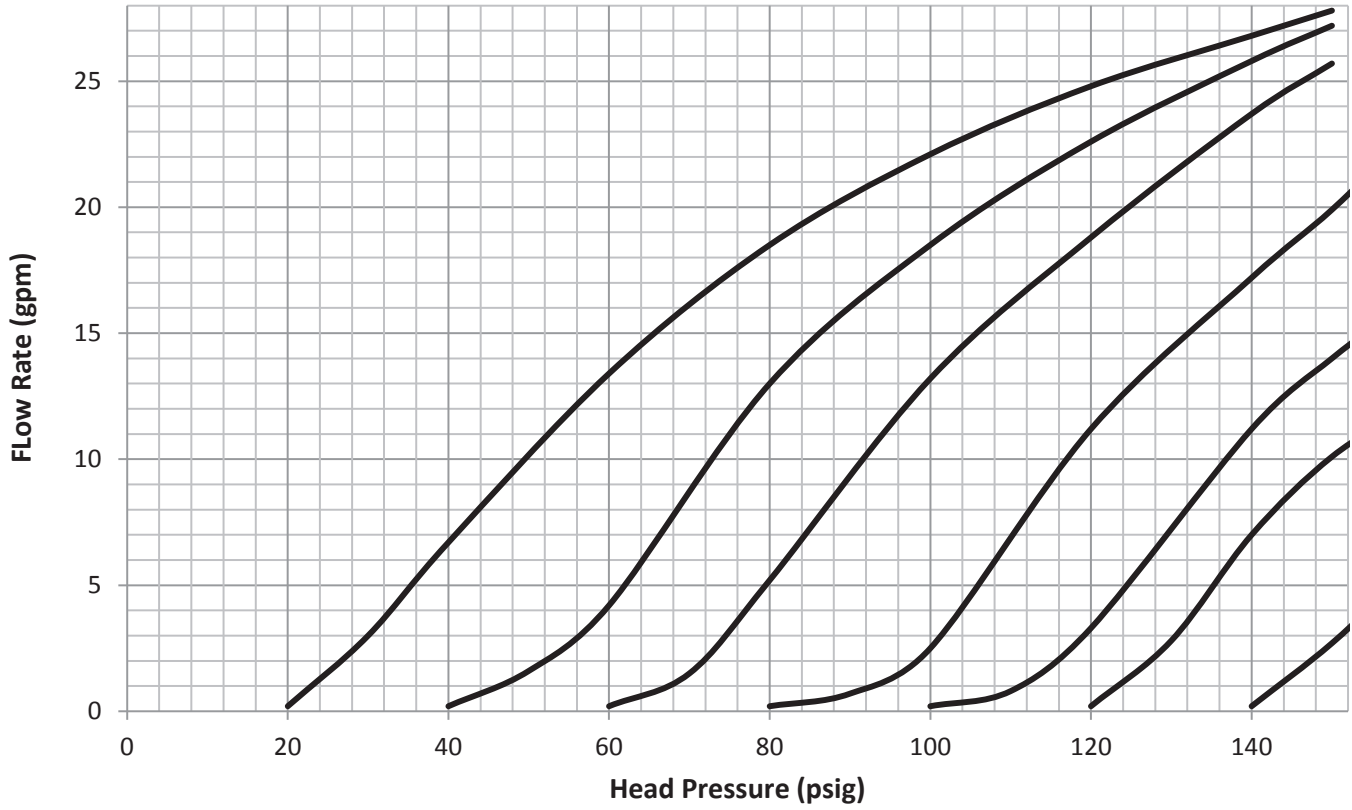


1/4" – 1/2" Back Pressure Valve, 5-50 PSI Spring, Elastomer Diaphragm

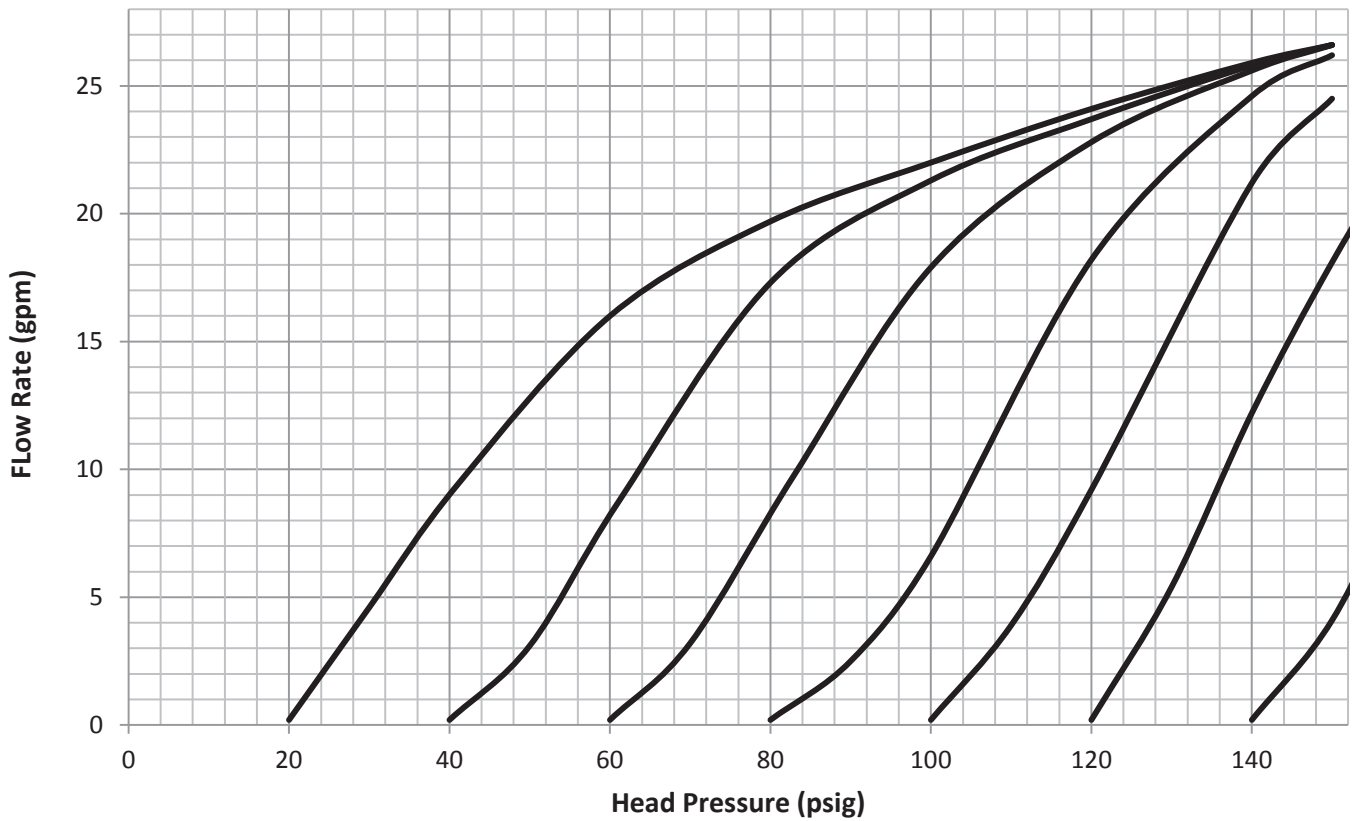


Pressure Relief Valves 1/4" – 1/2" Mini

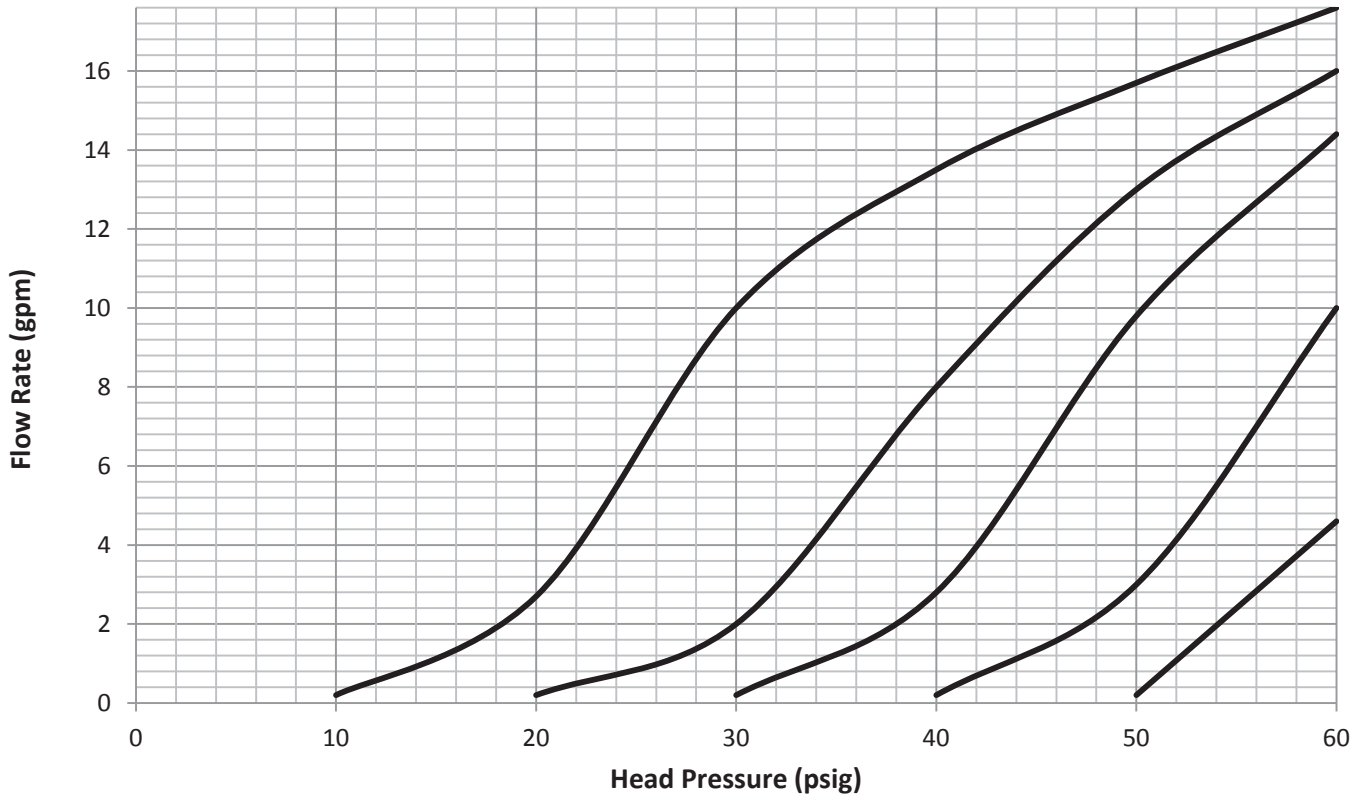
1/4" – 1/2" Pressure Relief Valve, 5-150 PSI Spring, PTFE Diaphragm



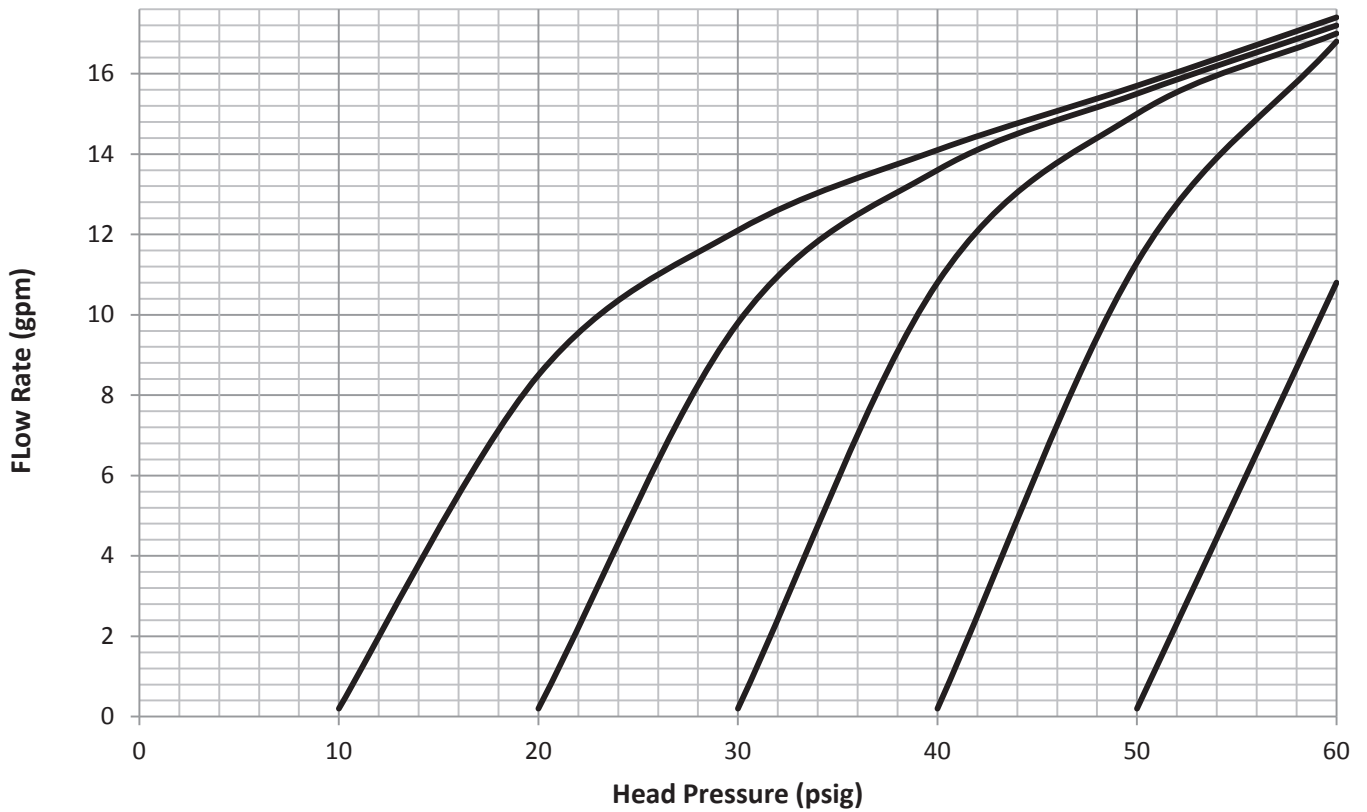
1/4" – 1/2" Pressure Relief Valve, 5-150 PSI Spring, Rubber Diaphragm



1/4" – 1/2" Pressure Relief Valve, 5-50 PSI Spring, PTFE Diaphragm

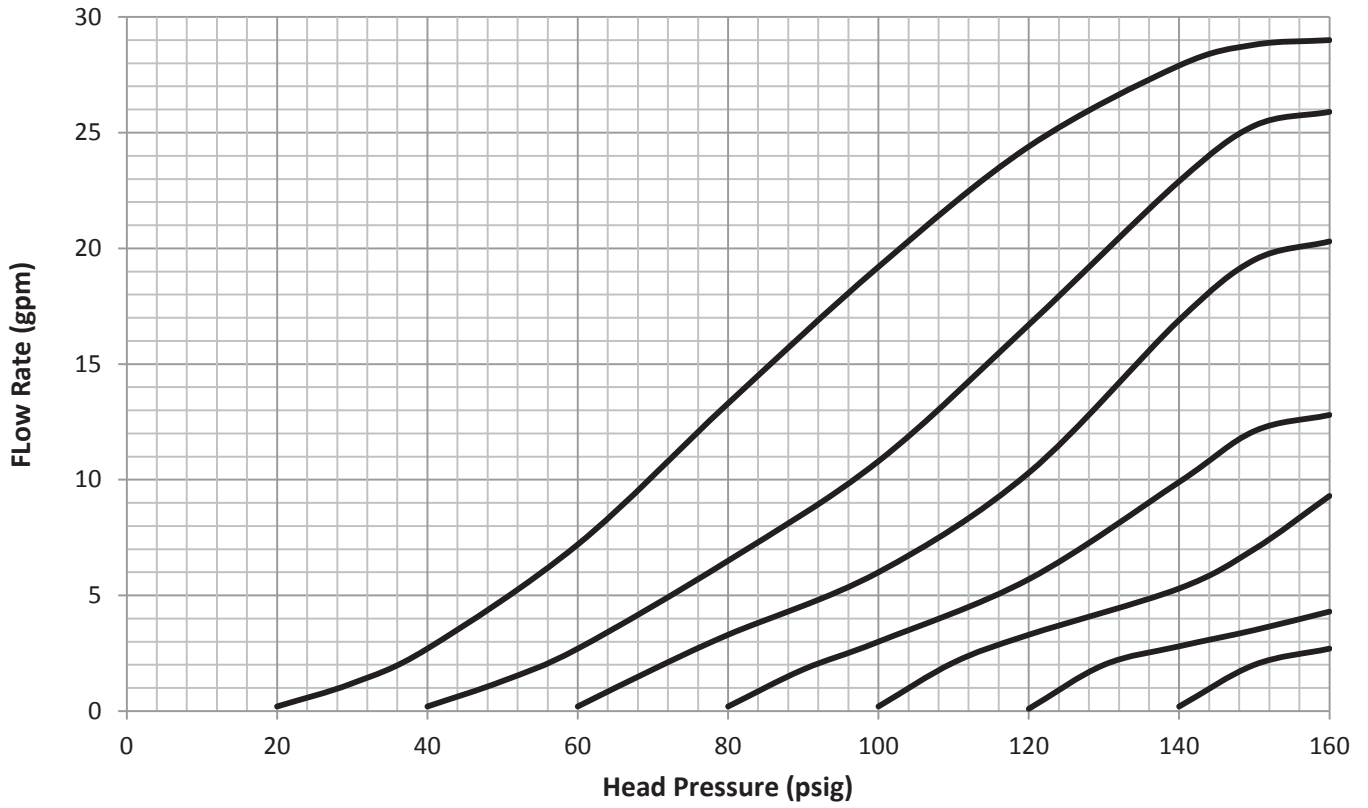


1/4" – 1/2" Pressure Relief Valve, 5-50 PSI Spring, Elastomer Diaphragm

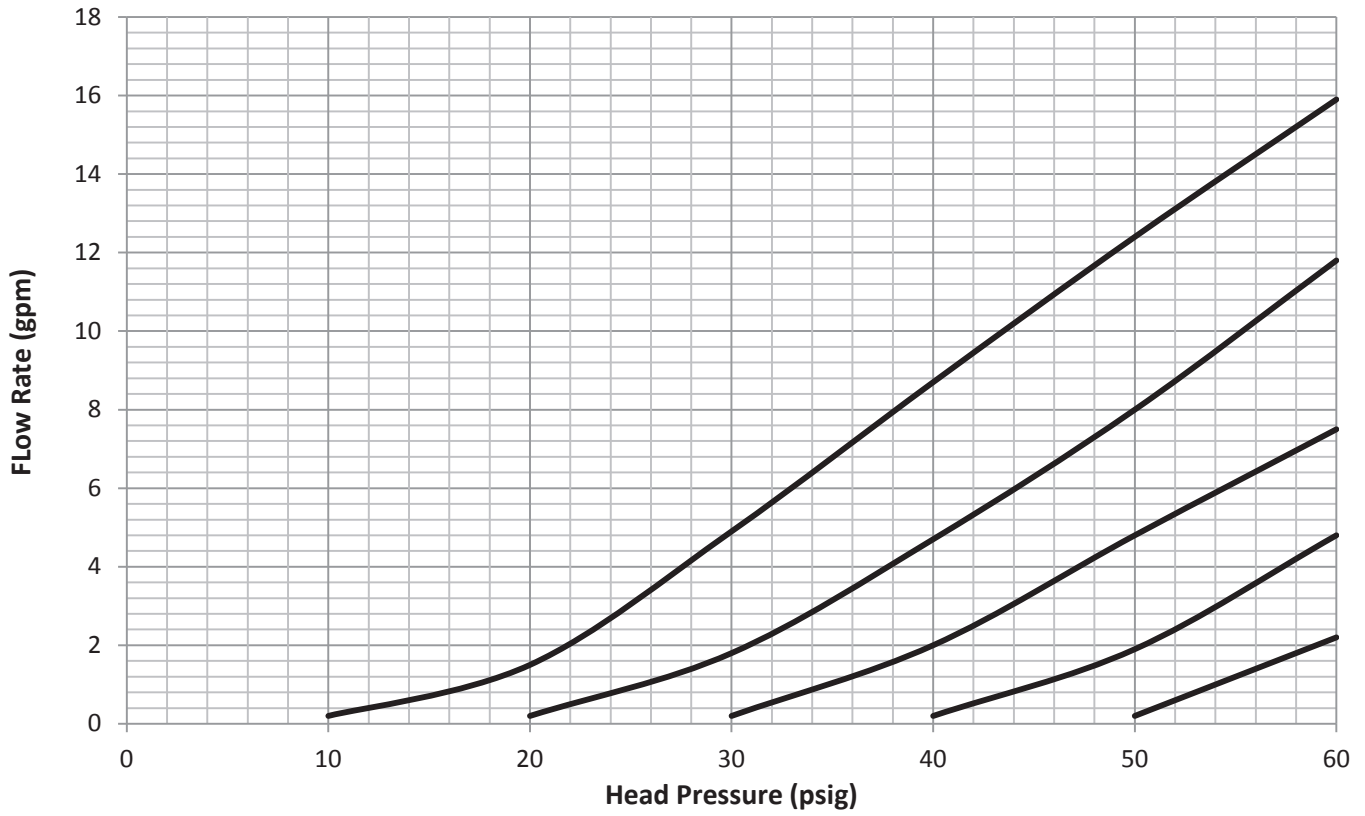


Back Pressure Valves 1"

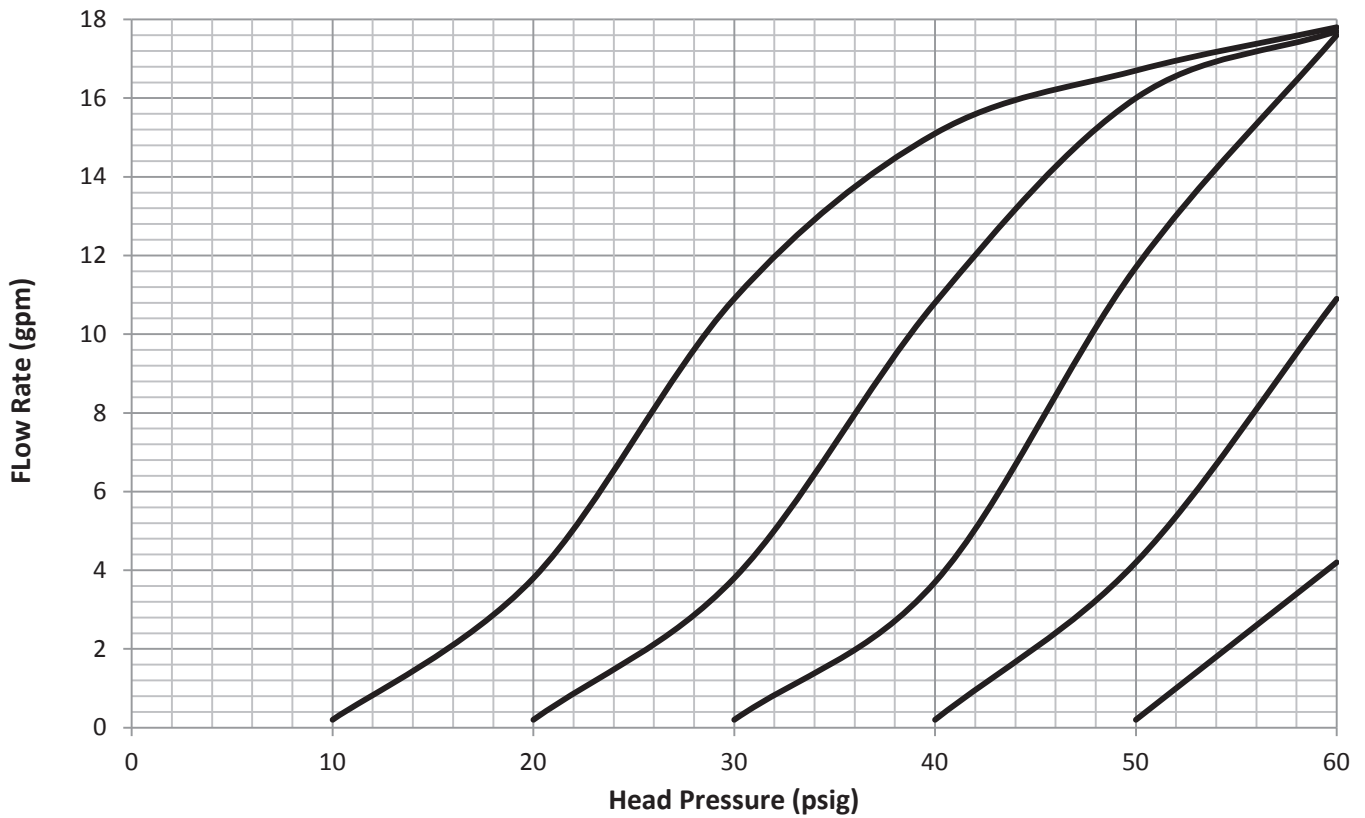
1" Back Pressure Valve, 5-150 PSI Spring, PTFE Diaphragm



1" Back Pressure Valve, 5-50 PSI Spring, PTFE Diaphragm

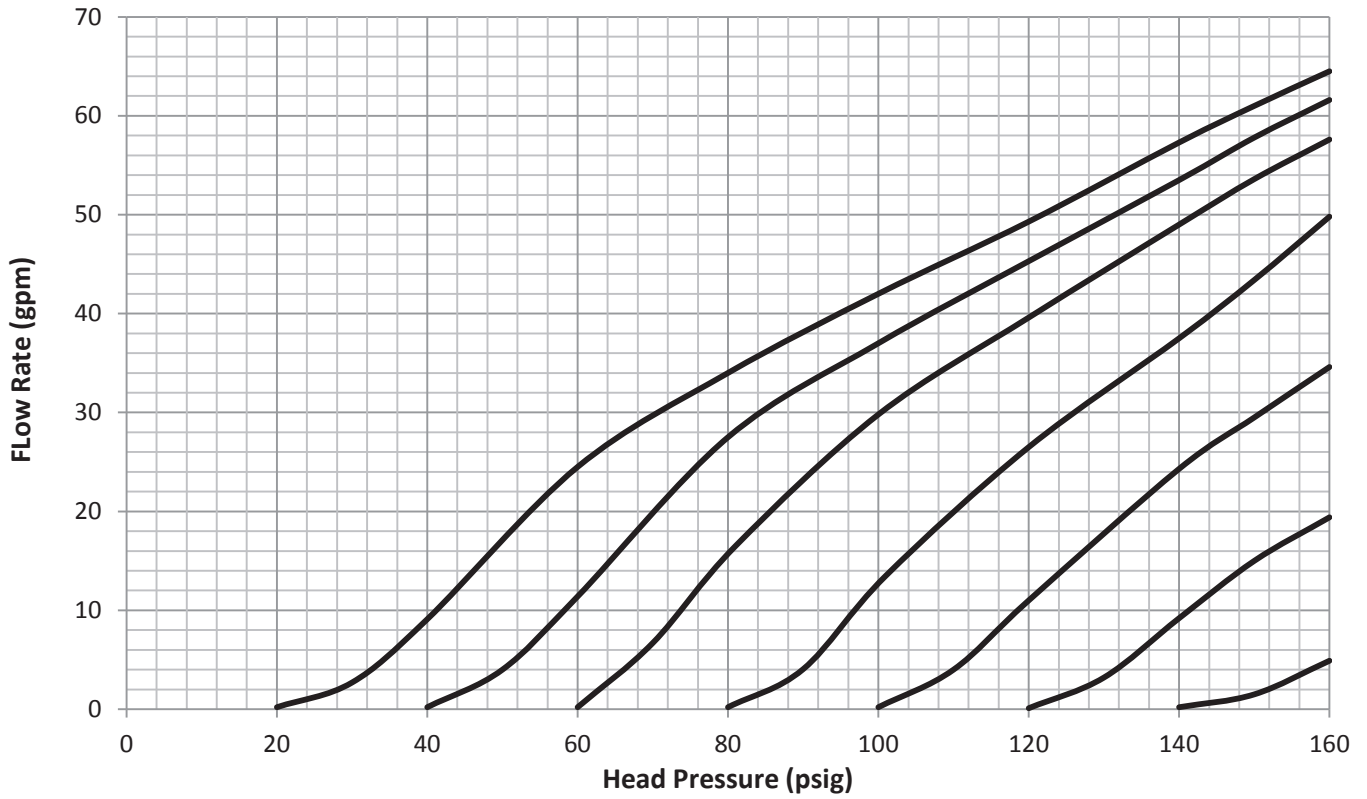


1" Back Pressure Valve, 5-50 PSI Spring, Rubber Diaphragm

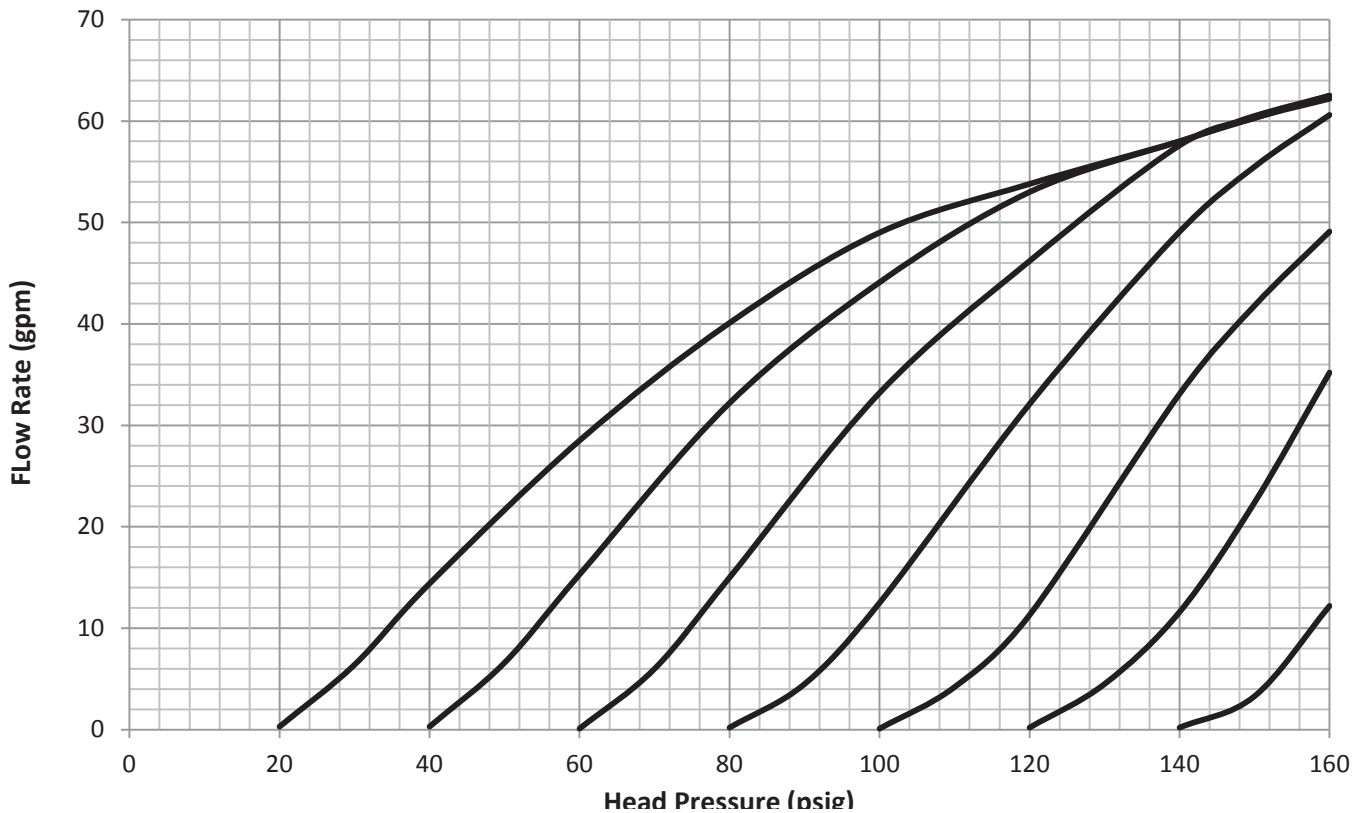


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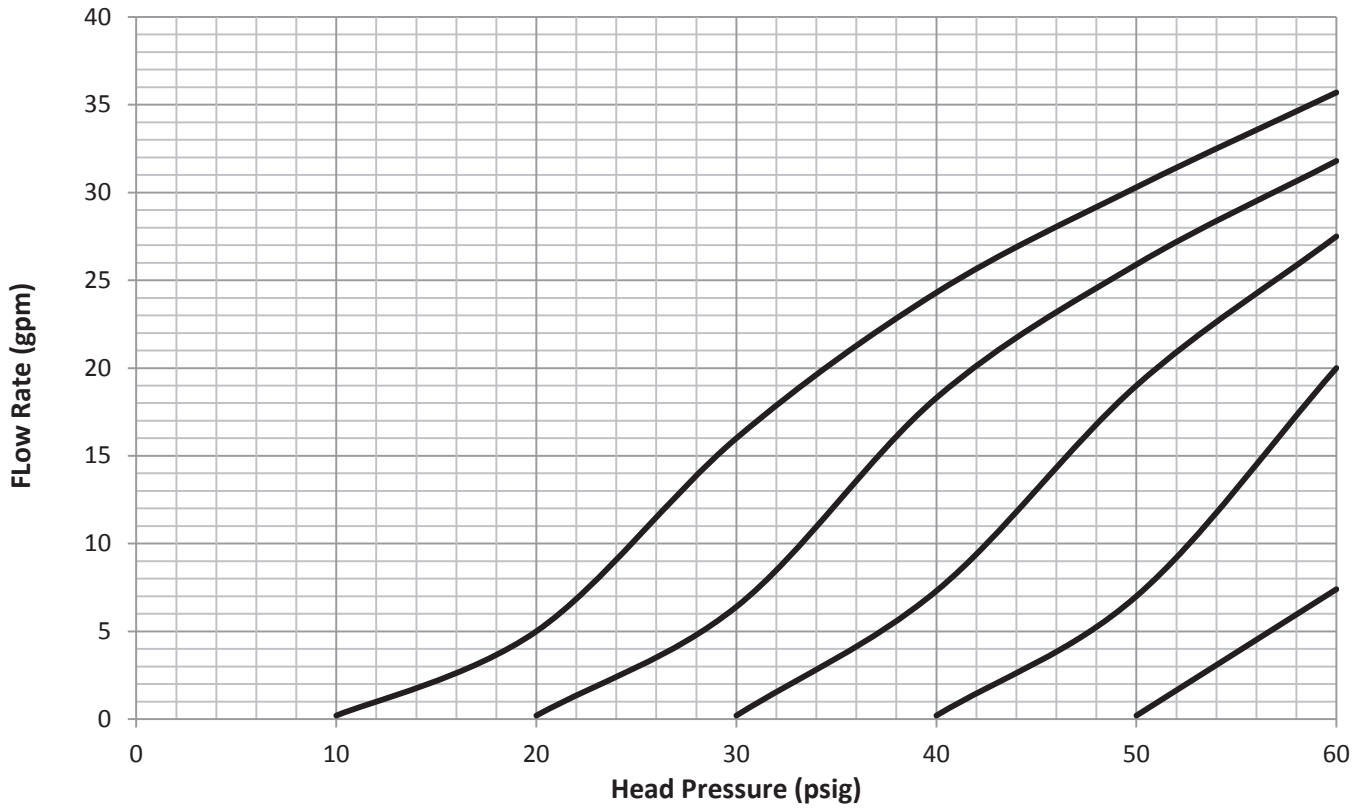
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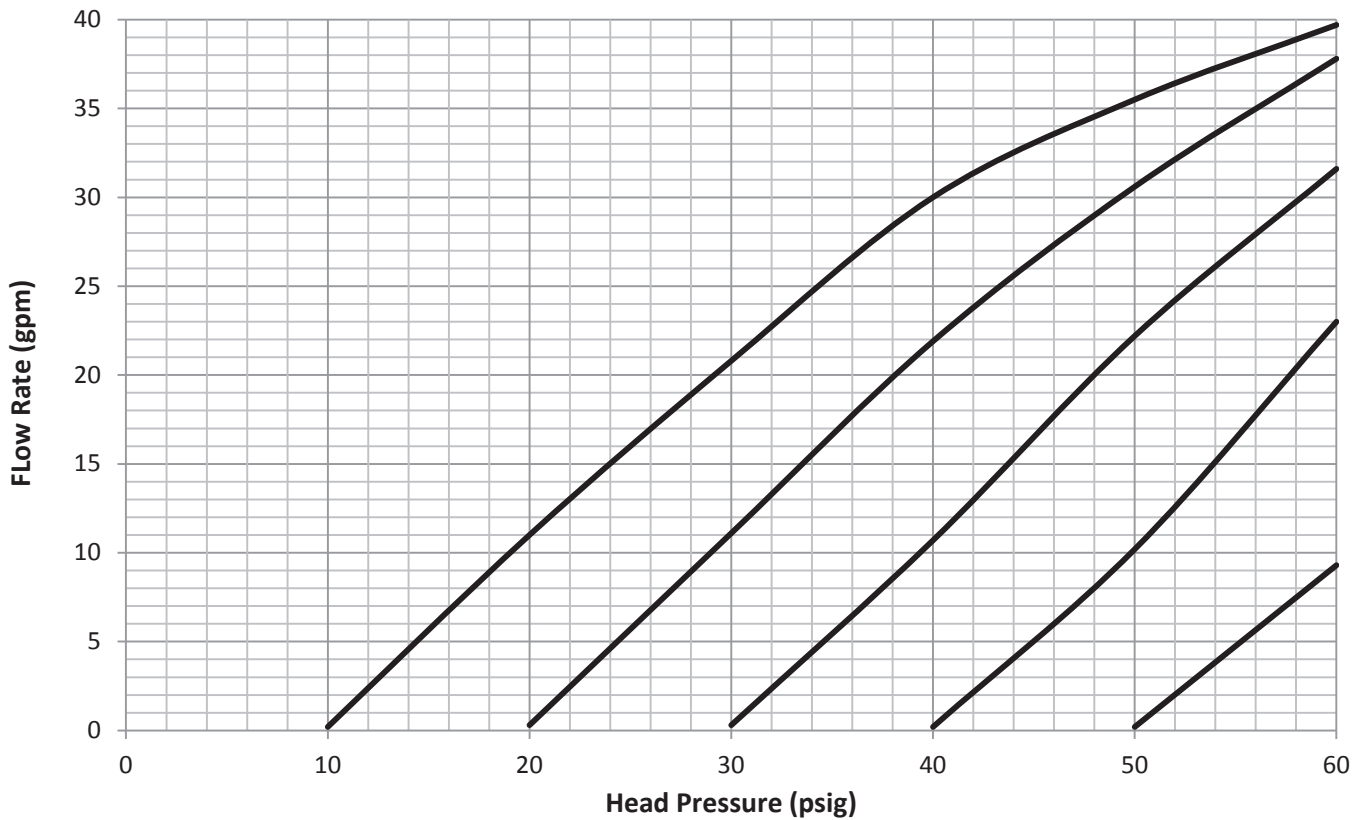
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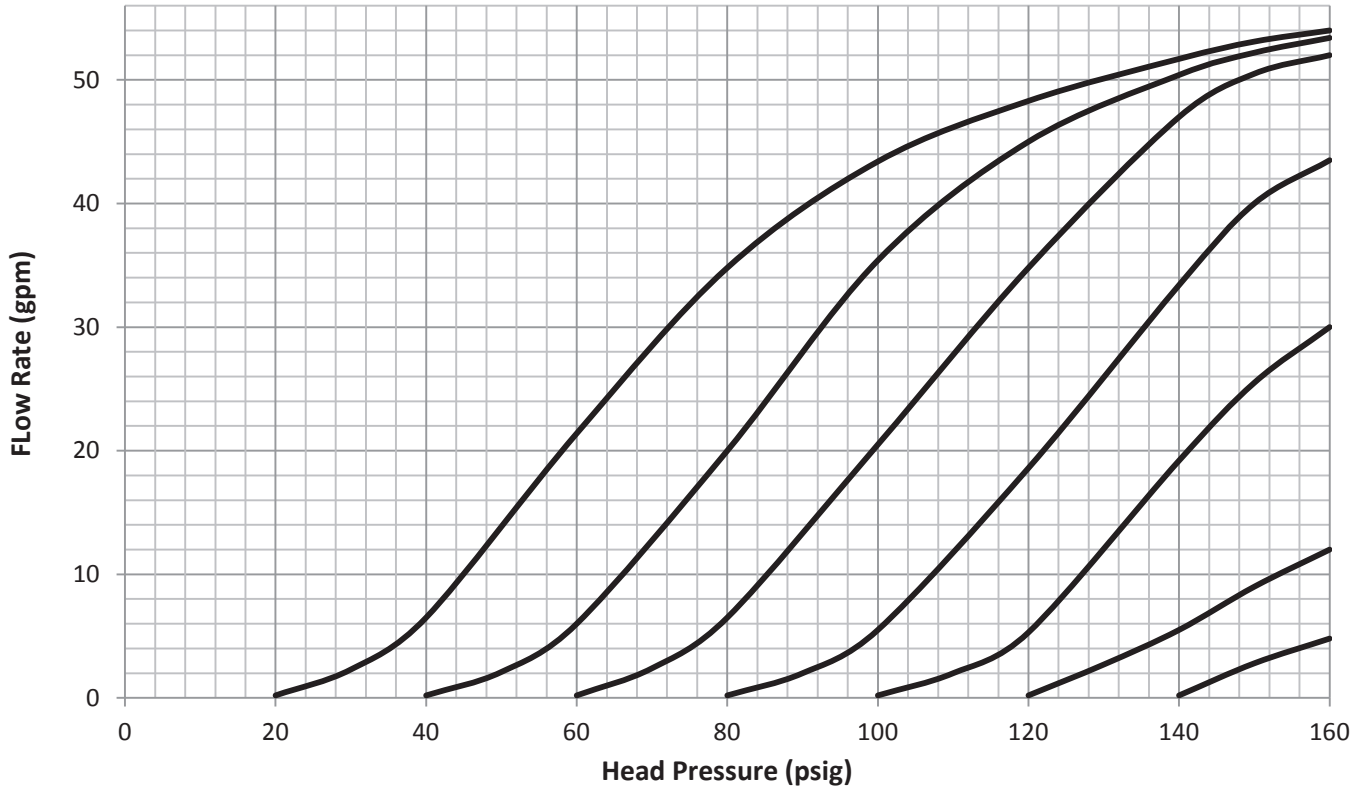


1" Pressure Relief Valve, 5-50 PSI Spring, Rubber Diaphragm

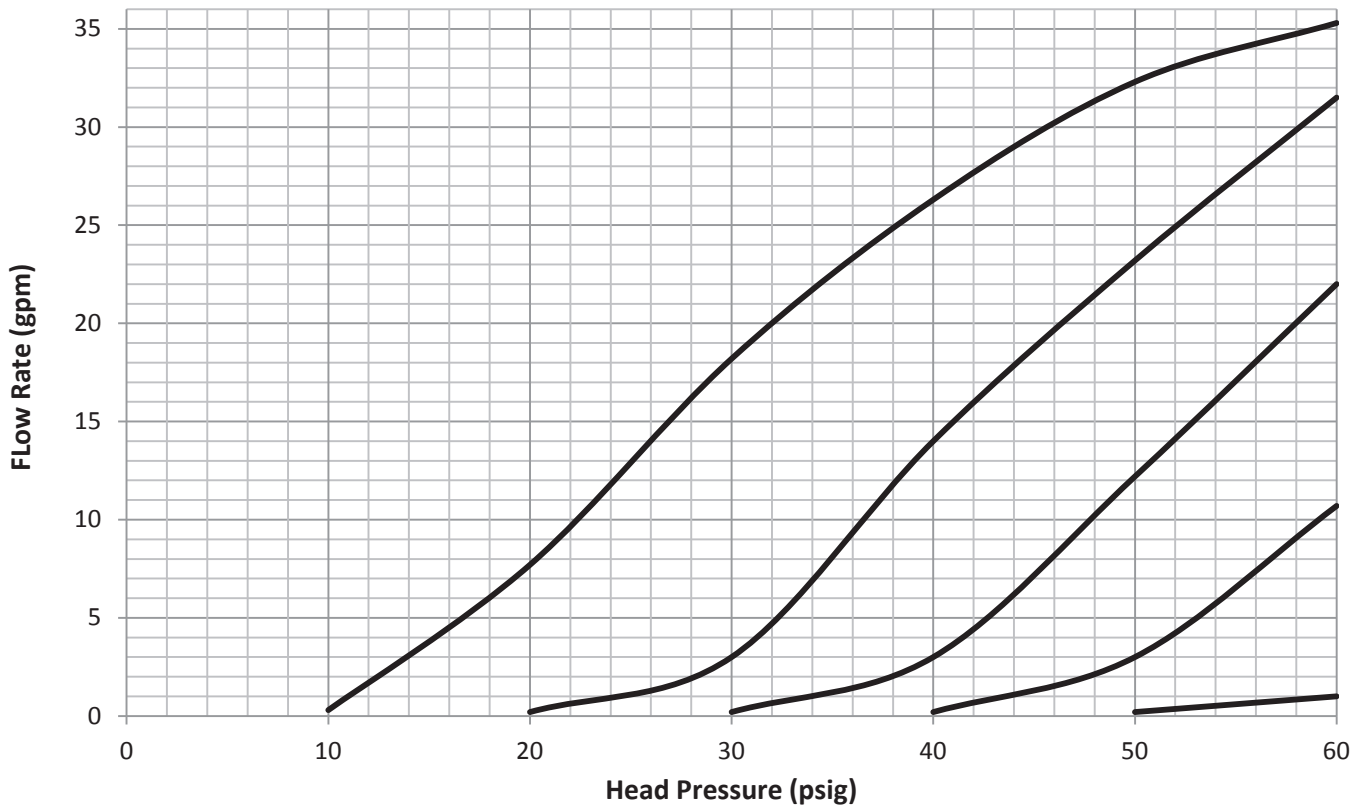


Back Pressure Valves 1-1/2"

1-1/2" Back Pressure Valve, 5-150 PSI Spring, PTFE Diaphragm

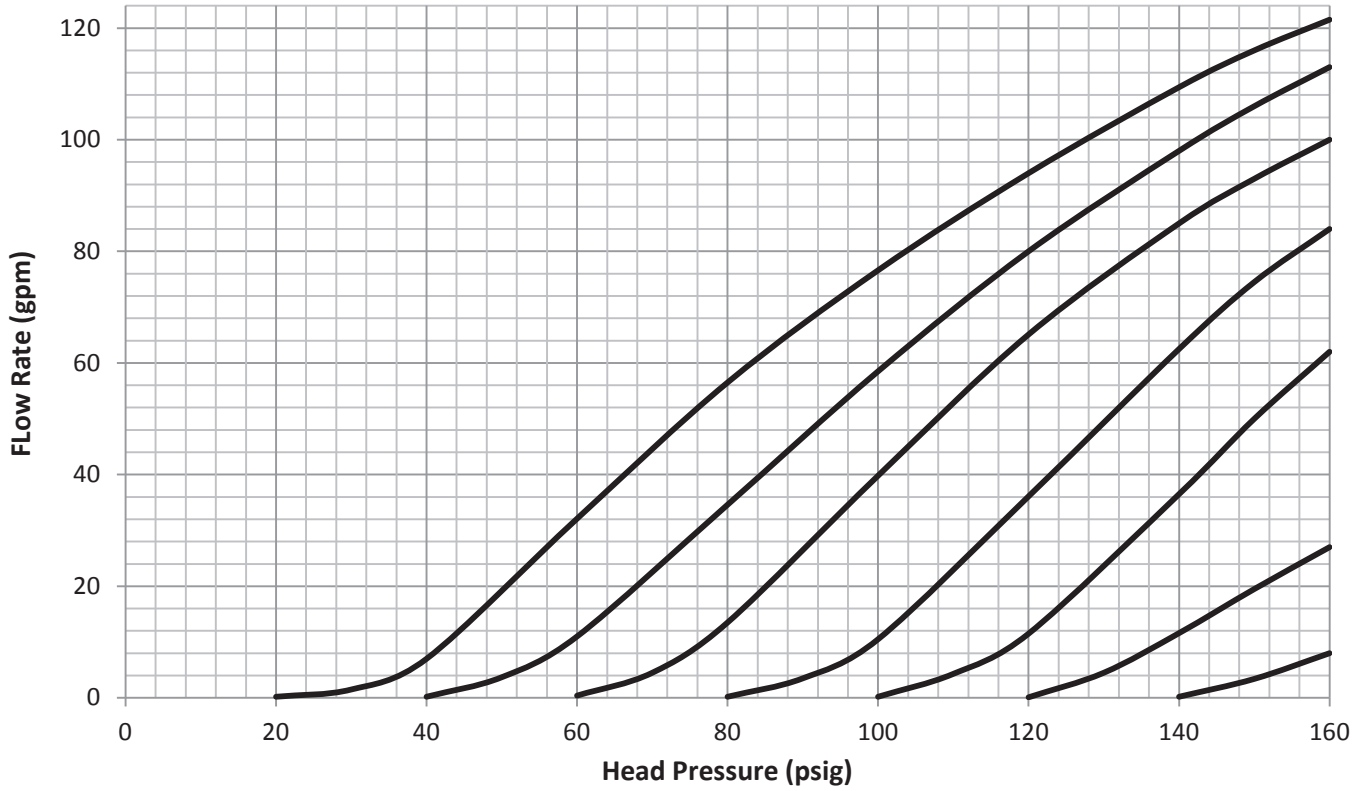


1-1/2" Back Pressure Valve, 5-50 PSI Spring, PTFE Diaphragm

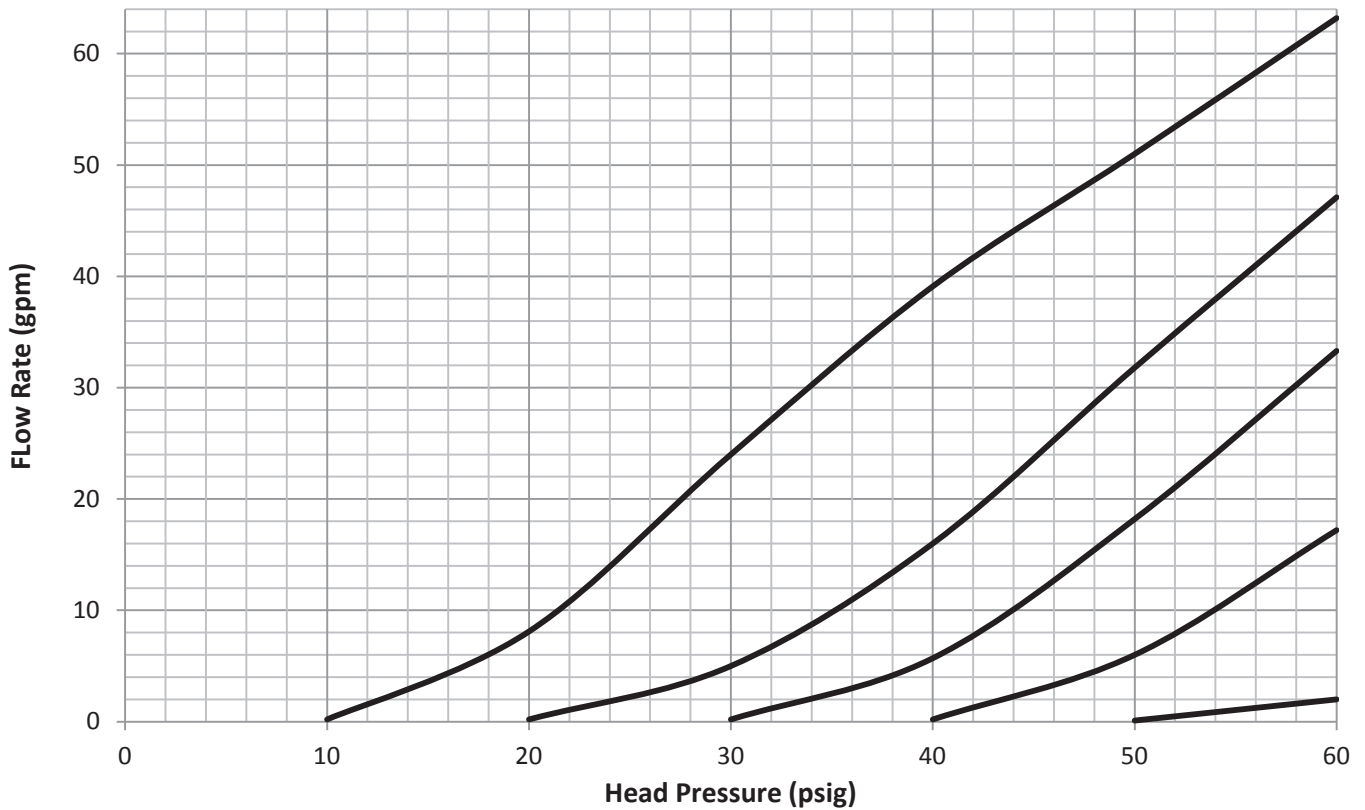


Pressure Relief Valves 1-1/2"

1-1/2" Pressure Relief Valve, 5-150 PSI Spring, PTFE Diaphragm

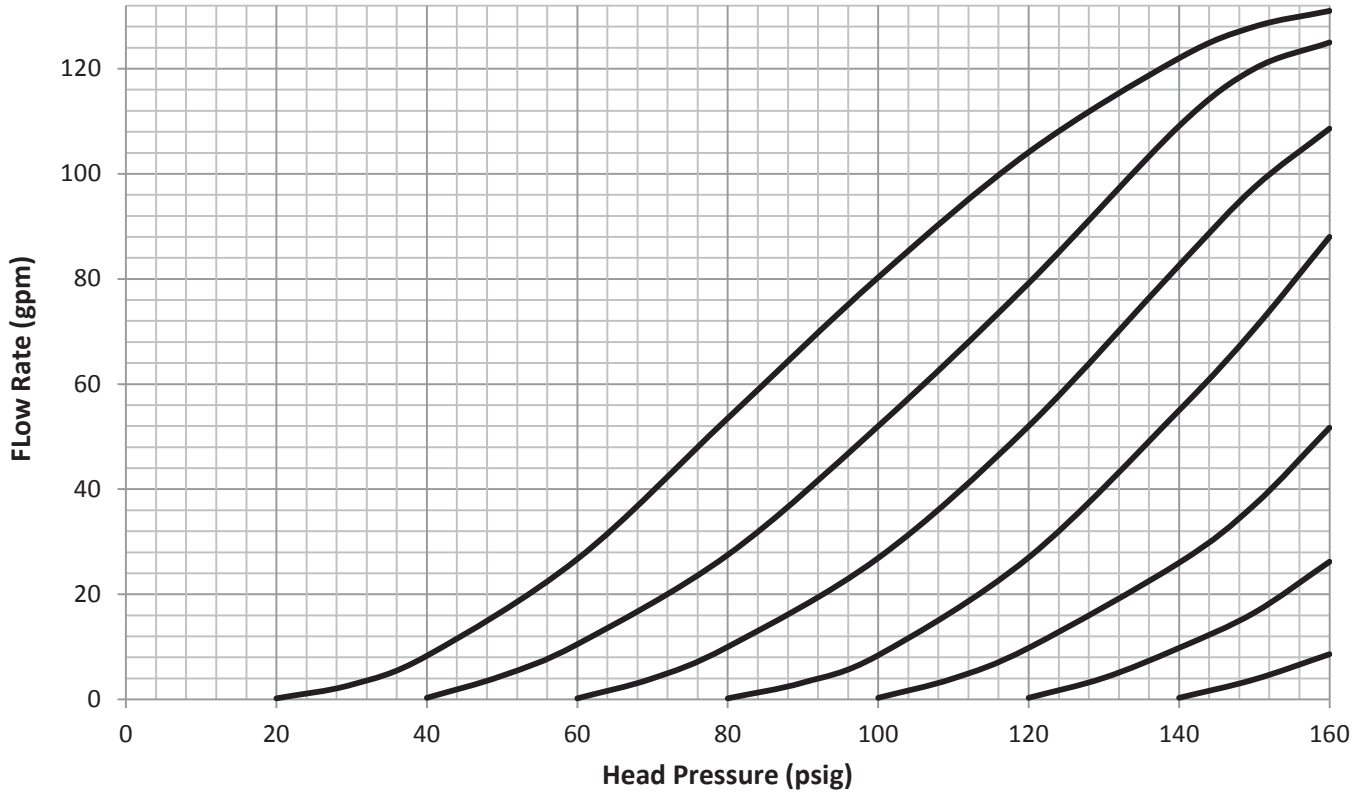


1-1/2" Pressure Relief Valve, 5-50 PSI Spring, PTFE Diaphragm

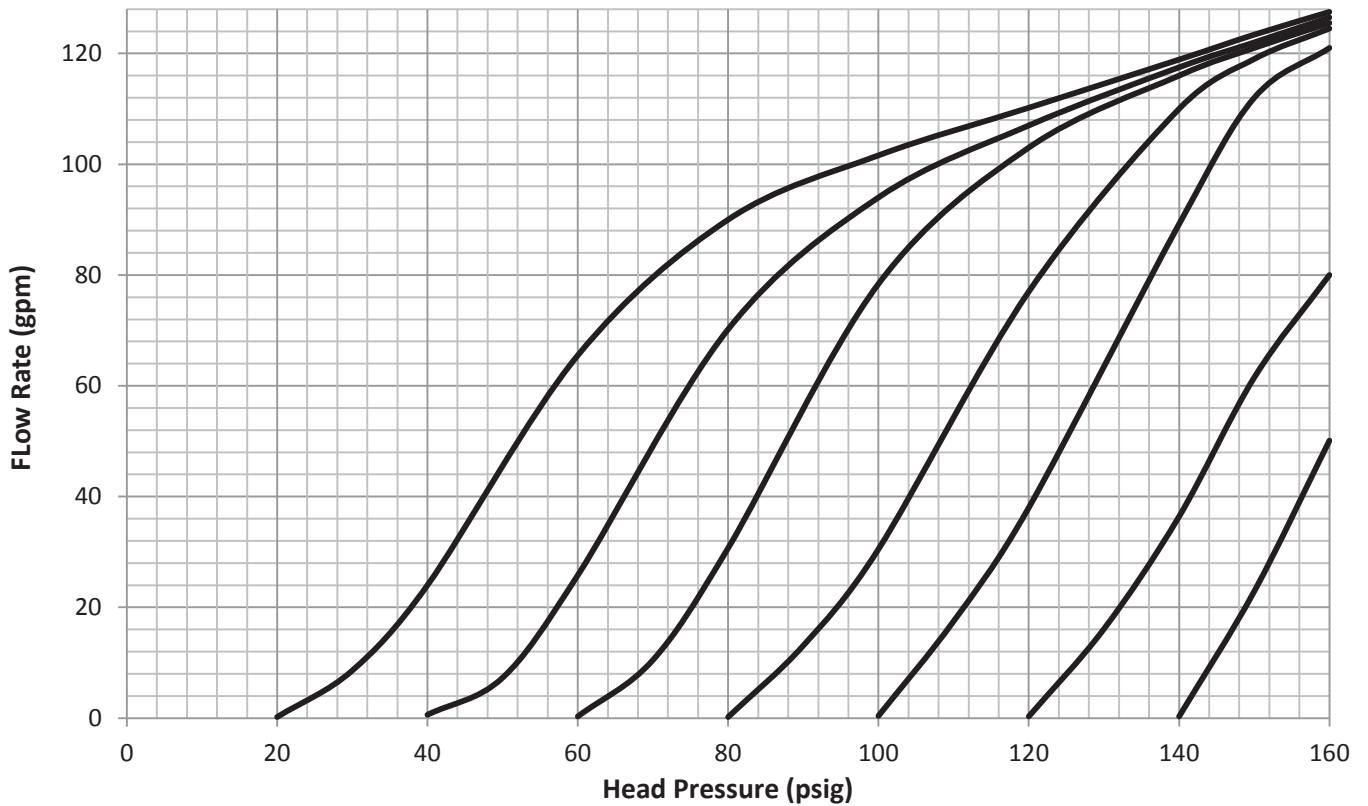


Back Pressure Valves 2"

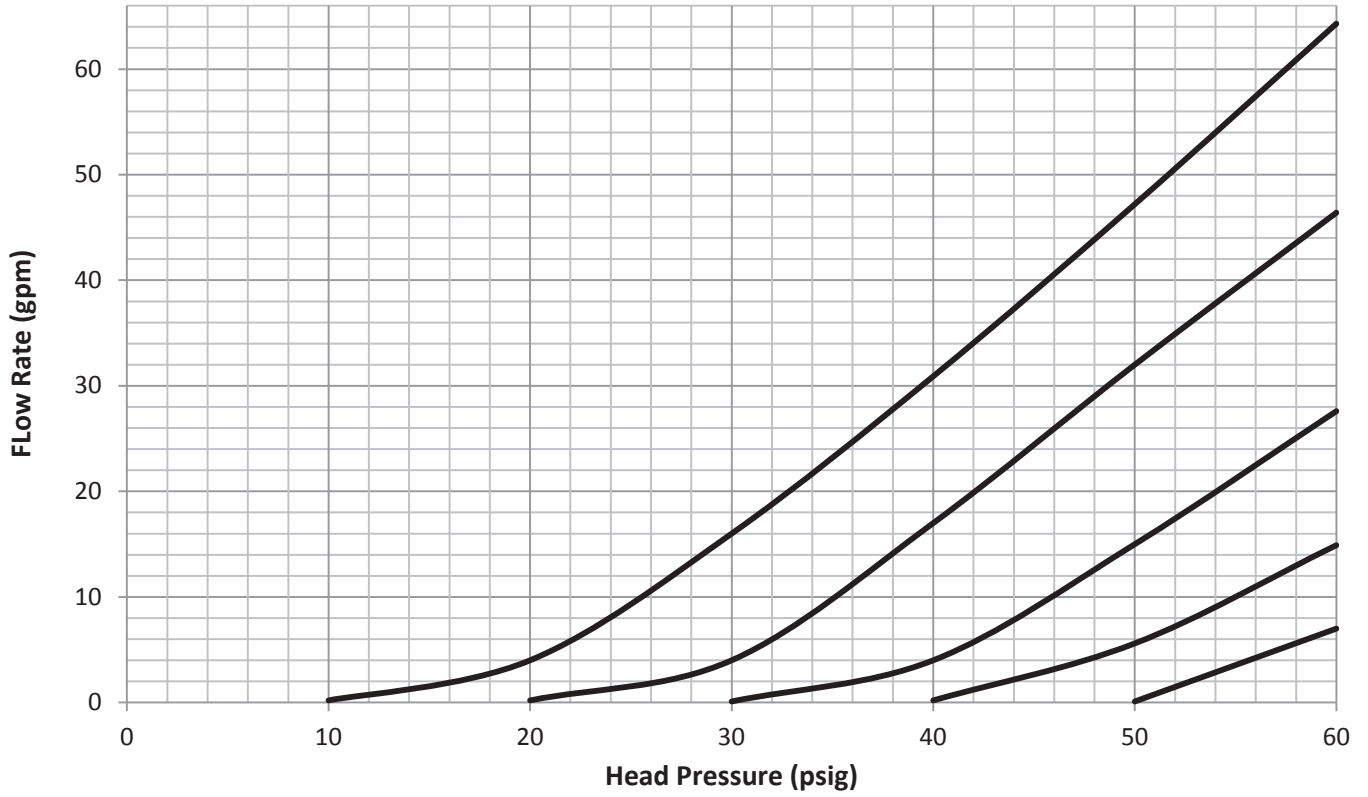
2" Back Pressure Valve, 5-150 PSI Spring, PTFE Diaphragm



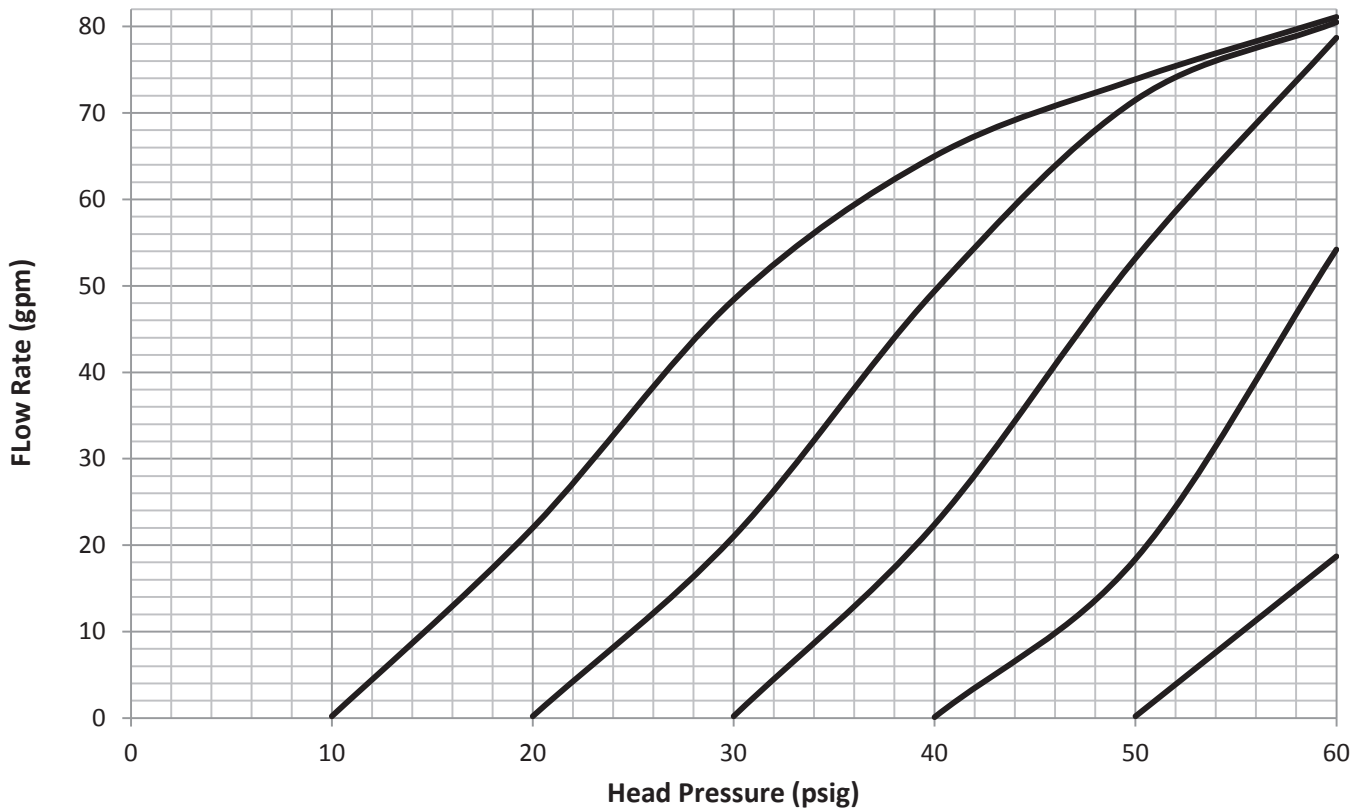
2" Back Pressure Valve, 5-150 PSI Spring, Rubber Diaphragm



2" Back Pressure Valve, 5-50 PSI Spring, PTFE Diaphragm

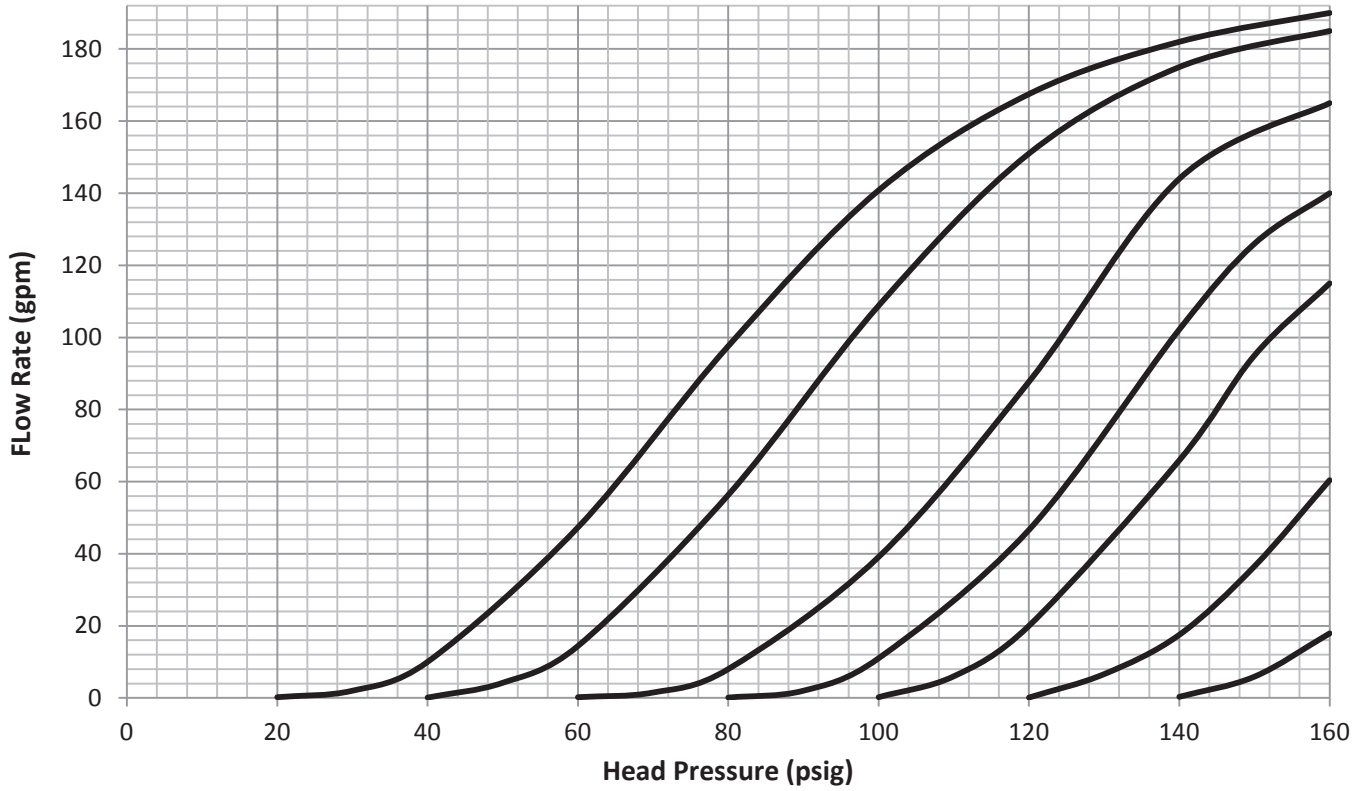


2" Back Pressure Valve, 5-50 PSI Spring, Rubber Diaphragm

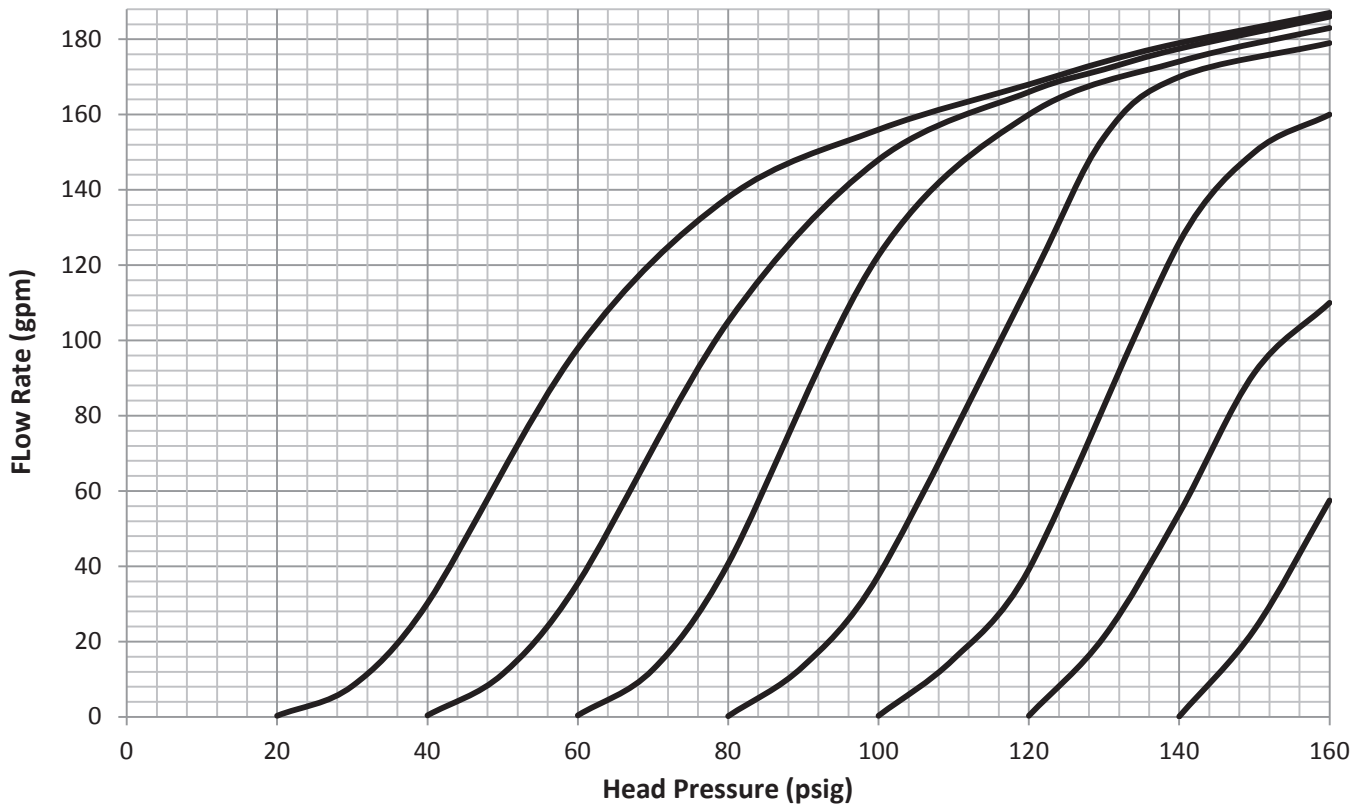


Pressure Relief Valves 2"

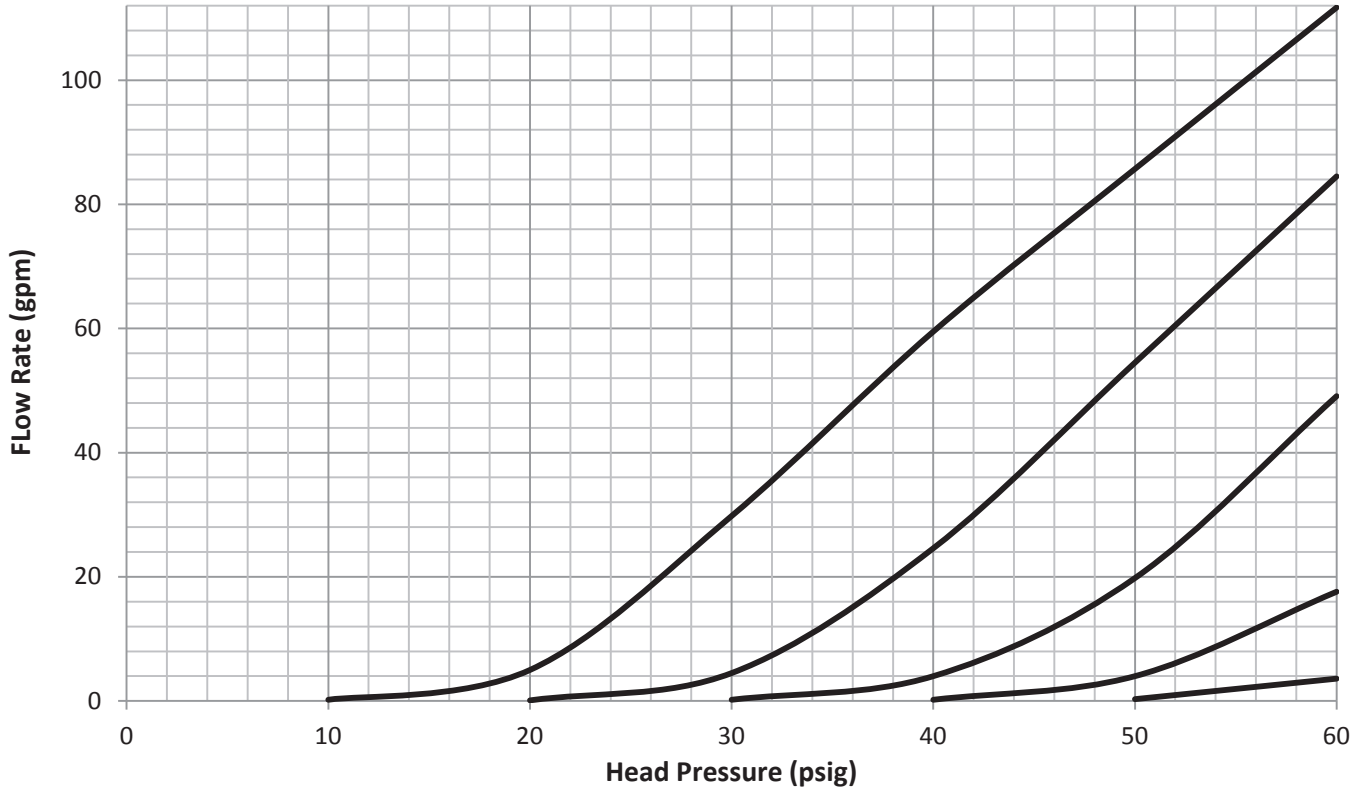
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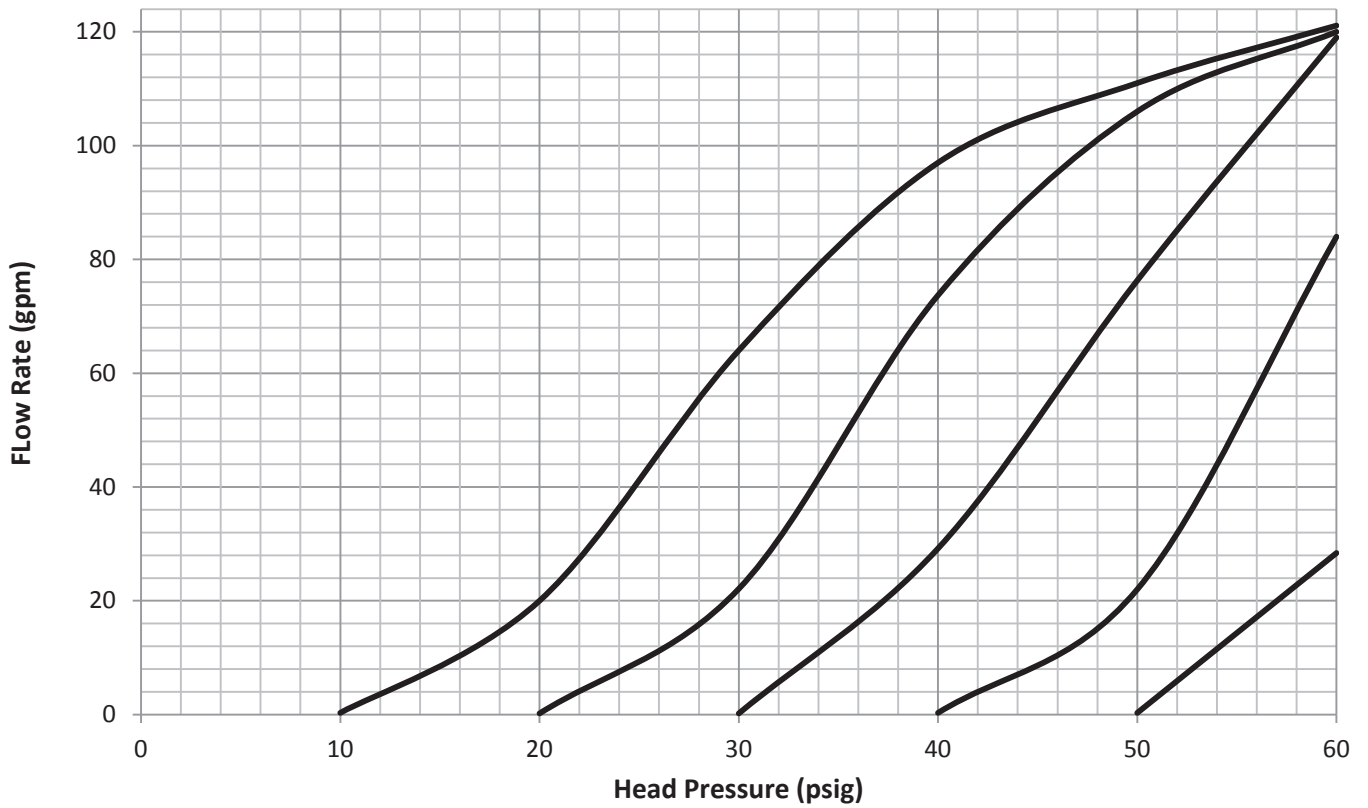
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2" Pressure Relief Valve, 5-50 PSI Spring, PTFE Diaphragm



2" Pressure Relief Valve, 5-50 PSI Spring, Rubber Diaphragm



T17E11_020

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