

Cast Steel Valves And Working Pressure

Questions have been received about the working pressure capabilities of cast steel valves. Milwaukee Valve offers cast steel gate, globe and check valves in Class 150 and Class 300 ratings. The 150 and 300 numbers do not correlate directly to the working pressure limits of the valves, which are governed by ASME B16.34. This standard covers a wide variety of flanged, threaded and weld-end valves.



The body and bonnet materials for these valves are made with ASTM A216 Gr WCB. To better understand, please consult the Pressure-Temperature chart on our website...

<https://www.milwaukeevalve.com/wp-content/uploads/technical-service-information/PressureTemperatureData.pdf>. This chart shows the pressure and temperature rating of our ASTM A216 Gr WCB.

When using the chart, stick to the A216 WCB column, under the appropriate Class section. For example, a Class 150 valve is rated to 285 psig from -20° to 100°F. At 500°F, the valve is de-rated to 170 psig and so forth.

As for other types of valves offered in Class 150 and 300, such as our HP butterflies and flanged ball valves, there are other factors that may limit the pressure-temperature capabilities. Most commonly, these limitations come from the seat and seal material combinations used in these valves. Please refer to those individual cut sheets for the specific pressure-

temperature ratings.



For more information on the complete line of Milwaukee Valve cast steel valves or to download a specification sheet, click on the following:

[Cast Steel Gate Valves](#)

[Cast Steel Globe Valves](#)

[Cast Steel Check Valves](#)

For questions, please contact your Milwaukee Valve representative or regional manager. Get complete specs and features for all of our valve lines at www.MilwaukeeValve.com.



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