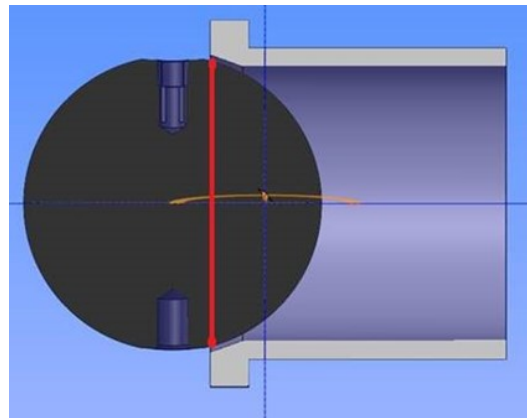


The Chord is the Clearance

Recently, a few customers have requested the **chord diameter** of our iron butterfly valves, particularly when using plastic (PVC, HDPE, etc.) piping and flanges. The chord diameter is the measurement from two points on the butterfly disc where the valve body and the mating flange meet. This dimension is essential to provide the butterfly disc with clearance within the mating pipe so that the valve is allowed to fully open and close.



Chord is a line segment on the interior of a circle.

This illustration represents plastic materials for the piping/mating flange, and shows the chord diameter depicted in red. Note the taper on the inner diameter (I.D.) of the flange. In this case, the taper is required to allow the disc to move

freely. On plastic piping systems, installers should verify dimensions prior to installation to eliminate interference with the valve's operation.

In typical systems, our resilient-seated butterfly valves are installed using 125# cast iron B16.1 flanges, or 150# cast steel B16.5 flanges in conjunction with standard weight pipe. In these cases, disc clearance is



not an issue, as iron and steel flanges **and** our iron butterfly valves are held to the rigid Disc-To-Pipe-Clearance standards of ASME. However, installers using plastic materials for the piping/mating flange need to consider that not all plastic piping is equal, nor are all plastic flanges manufactured to the exacting ASME standards.

For more information or assistance with Chord Diameter, contact your [Milwaukee Valve sales representative](#) or regional manager.



MILWAUKEE VALVE

www.milwaukeevalve.com
262.432.2700



HAMMOND VALVE

www.hammondvalve.com
262.432.2702



www.milwaukeevalve.com
262.432.2700

16550 West Stratton Drive, New Berlin, WI 53151

