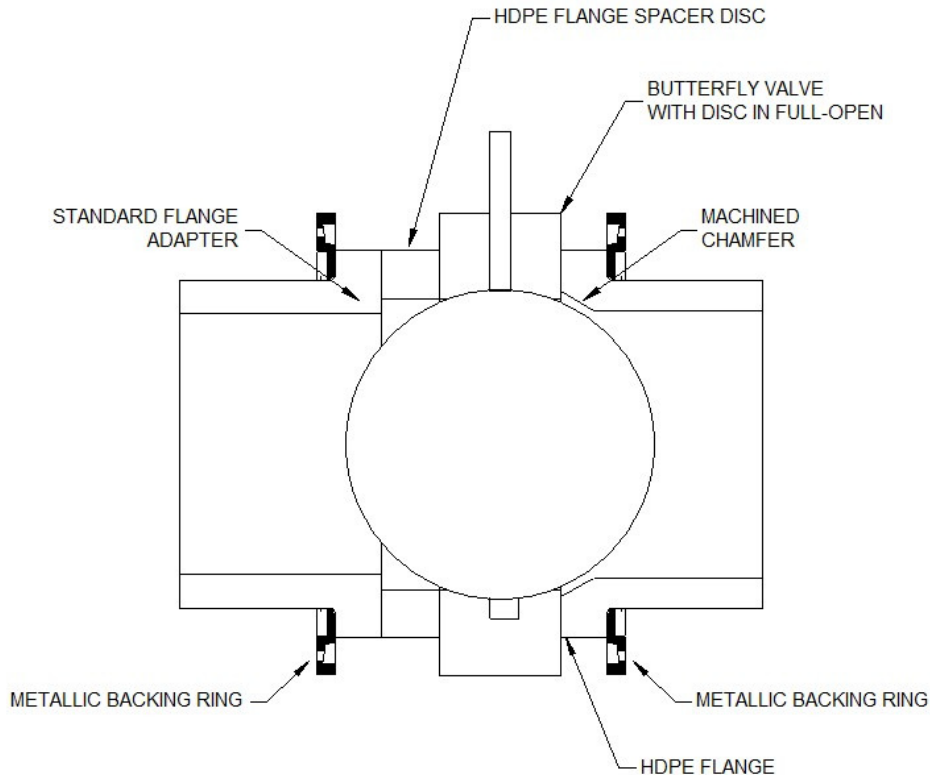




## HDPE Flanged Connection To Butter-Fly Valves

Flanged ductile iron valves are often used in otherwise HDPE pipelines. However, because the wall-thickness of HDPE pipe is considerably greater than metallic pipe, special attention must be paid to ensure ample interior space for the valve disc to fully open. Specified Fittings offers two strategies to accommodate butterfly-valve discs when HDPE flanges are used.



Standard flange adapters can be machined here at our factory with a interior bevel of sufficient angle and depth that a valve disc has room to operate. This method is illustrated to the right of the valve in the image above. Sometimes a flange adapter with a thicker face is required to both machine the required chamfer as well as maintain minimum wall thicknesses required for pressure rating. Alternatively, Specified Fittings offers spacer discs of calculated thickness and ID. These are placed between the valve and the HDPE flange adapter and set the flange adapter “far enough back” that the disc has room to open. This is shown on the left, above.

Specified Fittings is able to accommodate most manufacturers’ valves with most sizes and DR’s of HDPE flanged connection. However, because each valve manufacturer varies their design, when enquiring about these fittings through Specified Fittings, please be prepared with the following information: Valve manufacturer and model, as well as HDPE system requirements such as working pressure. Final design approval of bevel patterns suggested by Specified Fittings to accommodate butterfly-valve discs shall rest with purchaser.