

POWERLOK™ Flanged Polymer Ball Valve – Xylene Application at 30°C



INDUSTRY

Chemical and Pharmaceutical Industry

CUSTOMER

One of the leading manufacturer of Chemical Dyes and Intermediates since the past 2 decades.

BACKGROUND

Leading manufacturer of Chemical Intermediates since the past 2 decades and one of the prominent players in the export segment catering to majorly US and European continents. Major products being META NITRO ANILINE (1 AMINO 3 - NITRO BENZENE) and META NITRO ANILINE (1,3, DI-NITRO BENZENE), the customer uses variety of chemicals and acids for their processes leading up to the final product.

CHALLENGE FACED

The customers was constantly battling with high maintenance costs due to breakdowns from faulty/non-compatible valves and static equipment with the various process fluids in the plant. The current supply valves would not last more than 15 days due to their non-compatibility with the process fluid, which in this case was Xylene.

The client also added the criteria of weight reduction along with compatibility with Xylene at 30°C. Thomas & Brian® had to come up with a solution to replace the currently used Stainless Steel grade Valves with Valves made from Advanced Engineering Plastics, which would be not only be compatible to the fluids but also reduce the weight of the valves by a minimum of 60%.

OPERATING CONDITION:

Pressure : ANSI Class 150
Temperature : 30°C
Application : Chemical Intermediate Manufacturing Process
Media : Xylene (80-90% purity)

SOLUTION AND BENEFITS

Due to our knowledge in more than 400 grades of Advanced Engineering Plastics and Process Cycle inputs from the Client, Thomas & Brian® machined a Flanged for ANSI Class 150 pressure rating. This Advance Engineering Plastic was carefully selected after understanding the process requirements and primarily compatibility to Xylene at 30°C. The Valve was not only compatible but is successfully working since 12 months with weight reduction of close to 80% due to the low density of the plastic.



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