

CONCEPTUAL DESIGN AND ANALYSIS OF HIGH PRESSURE BALL VALVE

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Abstract - A valve is a mechanical device which regulates either the flow or pressure of the fluid. Among the different types of valves, high pressure ball valve finds use in certain application like industrial hydraulics and marine hydraulics. The present study involves designing the high pressure valve of nominal diameter 25mm (DN 25 and PN 350). When the flow line exceeds 150bar, the valves are known as high pressure valves. With the increasing the pressure, the design of various components of the valve become critical. The designing of high pressure ball valve components depends on pressure, temperature ratings and also other factors. The design calculation is done for sealing cap, ball, connection adaptor, valve housing and operating lever. The maximum stress and deflection is calculated for different sealing cap materials under high pressure. The torque required to operate the valve, which includes breaking torque, running torque and ending torque are calculated and compared with technical information from research case study.

Key Words: PTFE, Delrin-100, Acetal, High pressure ball valve, F.O.S, strength.

1. INTRODUCTION

A valve is a mechanical device which regulates either the flow or the pressure of the fluid. Its function can be stopping or starting the flow, controlling flow rate, diverting flow, preventing back flow, controlling pressure, or relieving pressure[9].

Valves are mainly classified by following methods: Type of operation, The Nature and Physical condition of the flow, leakages and flow control types, operating method, functionality, etc. Most of the valves have two port, named inlet and outlet port. But for some applications there are multi-port configured valves. They can be three-way and four-way valves.

1.1. The Operative of the Valve Closure Member:

The kind of closure member movement defines both the geometry and operative of the valve.

• **Multi valve (Linear motion valves):** The closure member has a linear displacement generally by turning its threaded stem several times. Valves: Diaphragm valve, Gate valve, Needle valve.

- **Quarter-turn valve (rotary valves):** The closure member as well its shaft turn 00 -900; from the fully-open position to the fully-closed position. And quick opening/closure.
- **Valves:** Ball valve, Butterfly valve, Plug valve.

2. 1 Design Description:

The present study deals with the design of a high pressure ball valve. The designing of valve depends upon the pressure and temperature ratings and also other factors. The critical components are analyzed using the finite element analysis. Thus obtained engineering analyses are compared with the theoretical calculations. The pressure acting inside the valve will be calculated and analyzed using the ANSYS software.

2.2 Objective:

The high pressure ball valve will be designed for a working pressure of 350bars and a temperature range of 0 to 60 0C. The objectives of the project are listed as follows.

1. Customer specification and need for ball valve.
2. Designing of various components of the high pressure ball valve.
3. Modeling the components using SOLID WORKS2014.
4. Meshing the components using Hypermesh 9.0
5. Analyzing each components as follows -(ANSYS15.0)
 - Determining the compressive strength of the sealing cups for each material by applying compressive force on the sealing cups.
 - Torque required to operate the valve also calculated with considering the fluid factor and service factor. And comparison with the ISLIP FLOW CONTROLS Inc(IFC) technical information.
 - Then finding the frictional effect between ball and the sealing cups.
 - Determination of deflection occurred in the sealing cups.
 - Determination of maximum torque sustained by control spindle.
6. Comparing the finite element analysis result with theoretical calculations.

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